

Original Latex file created on 22Aug06_1016 and Modified on August 22, 2006.
Numbers in tables created on unknown unknown unknown.
Data processed in Dec 2005 - Jan 2006.
This data has been skimmed from PNN2-ntuples with the following cuts: OR of 1/3 skims,
BAD_RUN, (BOX2 or boxcuts), RSDEDXMAX, RSDEDXCL on the PNN2_SKIM set.

The title of a column describes the data set used.

pnn2 = PNN1+PNN2 data with the most up-to-date cuts applied.

pnn1 = PNN1 data with the most up-to-date cuts applied.

pnn2only = PNN2 data with the most up-to-date cuts applied.

Tables 1-5 are a summary of the long tables that follow.

The long tables track the events on a cut-by-cut basis. There are 3 columns per data set analyzed. In each column the first number in the cell is the number of events and the number in parenthesis is the rejection. The 1st column is the cuts applied sequentially; the 2nd is the application of only the listed cut; The 3rd is the number of events remaining before this cut is applied and the rejection of the cut.

Some cuts may have 787, 949, or cur attached to them. That means that the cut is set at the e787-pnn2, e949-pnn1, or the current e949-pnn2 level. Note that many of the cuts labeled cur are more than likely to be a carry over from e949-pnn1.

<i>rejection (n)</i>	gaptgz	p2d2	2bmrej
<i>Loose Setup</i>	10230.5 ± 7233.7 (2)	2519.0 ± 2518.5 (1)	9517.0 ± 5494.4 (3)
<i>TD</i>	6105.5 ± 4316.9 (2)	1543.0 ± 1542.5 (1)	8655.5 ± 6120.0 (2)
<i>TD · KIN</i>	3895.0 ± 3894.5 (1)	650.0 ± 649.5 (1)	5866.0 ± 5865.5 (1)

Table 1: **1-Beam Rejection Summary** of Tables 6-8. Each row is a different branch to measure the DELCO rejection. First number is the rejection. The number in parenthesis is the number of events remaining that the rejection is based upon. The minimum rejection is used in calculation of the 1-BM background for a conservative estimate.

<i>Norm. branches</i>	gaptgz	p2d2	2bmrej
ALL cuts below NORM	1.0 ± 1.0	1.0 ± 1.0	1.0 ± 1.0
<i>PV · TD norm</i>	4.0 ± 2.0	4.0 ± 2.0	8.0 ± 2.8
<i>CkTRS · CkTail rej</i>	4.4 ± 1.3	4.0 ± 0.9	4.2 ± 0.7
<i>B4DEDX norm</i>	1.0 ± 1.0	1.0 ± 1.0	1.0 ± 1.0
<i>CpiTRS · CpiTail rej</i>	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0
N_K	1.2 ± 0.7	1.3 ± 0.7	2.5 ± 1.0
N_{pi}	99999.0 ± 24999.8	99999.0 ± 24999.8	99999.0 ± 12499.9

Table 2: **1-Beam Normalization Summary** of Tables 9-13. The ALL-cuts-below row uses the combination of all cuts in the following 4 rows (branches) and is the normalization number used in the calculation of the numbers reported in Table 5 (Total Background). The sum of the last two rows provide a check on the ALL-cuts-below number.

rejection (n)	gaptgz	p2d2	2bmrej
$Rej_{K-K} : BWTRS \cdot CkTRS \cdot CkTail$	38.3 ± 9.5 (16)	66.0 ± 14.6 (20)	53.8 ± 8.9 (36)
$Rej_{K-pi} : BWTRS \cdot CpiTRS \cdot CpiTail$	243.7 ± 81.1 (9)	11.2 ± 2.5 (19)	146.6 ± 27.6 (28)

Table 3: **2-Beam Rejection Summary** of Tables 14-15. First number is the rejection. The number in parenthesis is the number of events remaining that the rejection is based upon. K-K is the case where two Kaons are entering the beam. K-pi is the case where we have a Kaon and a Pion entering. $\overline{B4TRS \cdot B4CCD}$ is applied.

Norm. branches	gaptgz	p2d2	2bmrej
$K-K_n : B4TRS \cdot B4CCD$	1.0 ± 1.0	1.0 ± 1.0	1.0 ± 1.0
$K-K_r : TG \cdot TGKIN \cdot TGPV$	2.0 ± 1.4	1.0 ± 0.0	3.0 ± 2.4
$K-pi_n : B4TRS \cdot B4CCD$	1.0 ± 1.0	1.0 ± 1.0	2.0 ± 1.4
$K-pi_r : TG \cdot TGKIN \cdot TGPV$	12.0 ± 11.5	2.0 ± 1.4	30.0 ± 29.5
N_{K-K}	0.5 ± 0.6	99999.0 ± 99999.0	0.3 ± 0.4
N_{K-pi}	0.1 ± 0.1	0.5 ± 0.6	0.1 ± 0.1

Table 4: **2-Beam Normalization Summary** of Tables 16-19. The 2-BM Normalization has 2 branches that are further bifurcated. $K-K_{r,n}$, $K-pi_{r,n}$ are the results of the bifurcations, r=rejection, n=normalization, which we used to determine the last two rows. N_{K-K} and N_{K-pi} are the 2-BM normalization values which are used in combination with Table 3 to give the final background in Table 5. For KK (Kpi), $\overline{CkTRS \cdot CkTAIL \cdot BWTRS}$ ($\overline{CpiTRS \cdot CpiTAIL \cdot BWTRS}$) is applied

Bkgrnd ($\times 10^{-3}$)	k034	e787	gaptgz	p2d2	2bmrej
1-BM	3.86 ± 2.36	1.66 ± 1.66	0.77 ± 0.77	4.62 ± 4.62	0.51 ± 0.51
2-BM KK	0.983 ± 0.983	145.9 ± 145.9	39.15 ± 48.92	$4548860.00 \pm 4659510.00$	18.58 ± 24.18
2-BM Kpi	0.106 ± 0.106	19.7 ± 19.7	1.03 ± 1.46	133.81 ± 166.48	1.36 ± 1.67
2-BM	1.14 ± 1.14	165.6 ± 165.6	40.18 ± 40.18	$4548990.00 \pm 4548990.00$	19.94 ± 19.94
Total	5.00 ± 2.62	167.3 ± 167.3	40.95 ± 40.95	$4548990.00 \pm 4548990.00$	20.45 ± 20.45

Table 5: **Total Background.** Scaled to the 3/3 sample. k034 column is the result of e949-pnn1 analysis. e787 is the result of the e787-PNN2 analysis. The other columns are current results that are expanded upon throughout the rest of the tables. The errors are statistical. KB_{live} for k034 is 1.77×10^{12} and for e787 is 1.71×10^{12} . e787 background has been scaled up accordingly for comparison purposes.

Table 6: 1-Beam Rejection. Branch no. 1

Cuts	gaptgz seq	gaptgz single	gaptgz allbut	p2d2 seq	p2d2 single	p2d2 allb
<i>BOX</i>	757279 (0.00)	0 (757279.00)	2 (1.00)	692069 (0.00)	0 (692069.00)	1 (1.00)
<i>rsdedxmax</i>	757279 (1.00)	0 (757279.00)	2 (1.00)	692069 (1.00)	0 (692069.00)	1 (1.00)
<i>rsdedxcl</i>	757279 (1.00)	0 (757279.00)	2 (1.00)	692069 (1.00)	0 (692069.00)	1 (1.00)
<i>rslike</i>	757279 (1.00)	0 (757279.00)	2 (1.00)	692069 (1.00)	0 (692069.00)	1 (1.00)
<i>rngmom</i>	535731 (1.41)	221548 (3.42)	6 (3.00)	368106 (1.88)	323963 (2.14)	19 (19.00)
<i>pv(not tg)</i>	285245 (1.88)	324695 (2.33)	7 (3.50)	126519 (2.91)	343208 (2.02)	15 (15.00)
<i>bwtrs</i>	216593 (1.32)	176033 (4.30)	2 (1.00)	93039 (1.36)	164091 (4.22)	1 (1.00)
<i>b4trs</i>	189225 (1.14)	169185 (4.48)	2 (1.00)	79641 (1.17)	161573 (4.28)	1 (1.00)
<i>b4ccd</i>	188780 (1.00)	9098 (83.24)	2 (1.00)	79289 (1.00)	11199 (61.80)	1 (1.00)
<i>tgqualt</i>	174712 (1.08)	54119 (13.99)	2 (1.00)	70547 (1.12)	52835 (13.10)	1 (1.00)
<i>timcon</i>	173790 (1.01)	8896 (85.13)	2 (1.00)	69965 (1.01)	9923 (69.74)	1 (1.00)
<i>epitg</i>	171571 (1.01)	19581 (38.67)	2 (1.00)	67576 (1.04)	24503 (28.24)	1 (1.00)
<i>tger</i>	170421 (1.01)	20590 (36.78)	2 (1.00)	66791 (1.01)	20173 (34.31)	1 (1.00)
<i>targf</i>	162080 (1.05)	104400 (7.25)	5 (2.50)	61202 (1.09)	113785 (6.08)	1 (1.00)
<i>ticcon</i>	162077 (1.00)	116 (6528.27)	2 (1.00)	61201 (1.00)	194 (3567.37)	1 (1.00)
<i>dtgttp</i>	162057 (1.00)	650 (1165.04)	2 (1.00)	61198 (1.00)	463 (1494.75)	1 (1.00)
<i>rtdif</i>	155847 (1.04)	17804 (42.53)	2 (1.00)	59702 (1.03)	9415 (73.51)	1 (1.00)
<i>epimaxk</i>	147077 (1.06)	46636 (16.24)	2 (1.00)	54261 (1.10)	48396 (14.30)	1 (1.00)
<i>drp</i>	143007 (1.03)	13517 (56.02)	2 (1.00)	51992 (1.04)	11934 (57.99)	1 (1.00)
<i>phivtx1</i>	111676 (1.28)	167293 (4.53)	5 (2.50)	38518 (1.35)	159666 (4.33)	2 (2.00)
<i>eiccon</i>	108711 (1.03)	31957 (23.70)	2 (1.00)	37078 (1.04)	31784 (21.77)	1 (1.00)
<i>opsveto</i>	84684 (1.28)	232119 (3.26)	2 (1.00)	26439 (1.40)	228486 (3.03)	3 (3.00)
<i>kic</i>	76383 (1.11)	152601 (4.96)	2 (1.00)	24481 (1.08)	115553 (5.99)	2 (2.00)
<i>tggeo</i>	65826 (1.16)	316650 (2.39)	2 (1.00)	20546 (1.19)	284374 (2.43)	3 (3.00)
<i>tdedge</i>	61505 (1.07)	107373 (7.05)	2 (1.00)	19579 (1.05)	69100 (10.02)	1 (1.00)
<i>tzf fool 787</i>	46475 (1.32)	191717 (3.95)	2 (1.00)	12717 (1.54)	192639 (3.59)	1 (1.00)
<i>upvtrs</i>	40352 (1.15)	60254 (12.57)	2 (1.00)	12120 (1.05)	22440 (30.84)	1 (1.00)
<i>rvtrs</i>	40202 (1.00)	15383 (49.23)	2 (1.00)	12056 (1.01)	13491 (51.30)	1 (1.00)
<i>tgtcon</i>	38000 (1.06)	60212 (12.58)	5 (2.50)	11323 (1.06)	59148 (11.70)	4 (4.00)
<i>b4etcon</i>	37032 (1.03)	23424 (32.33)	2 (1.00)	11097 (1.02)	18567 (37.27)	1 (1.00)
<i>b4abm from file</i>	20461 (1.81)	577041 (1.31)	485 (242.50)	2519 (4.41)	656882 (1.05)	748 (748.00)
<i>DELC(0.)</i>	2 (10230.50)	539794 (1.40)	20461 (10230.50)	1 (2519.00)	407790 (1.70)	2519 (2519.00)
Total Rej.		10230.50			2519.00	

Table 7: 1-Beam Rejection. Branch no. 2

Cuts	gaptgz seq	gaptgz single	gaptgz allbut	p2d2 seq	p2d2 single	p2d2 allbu
<i>BOX</i>	757279 (0.00)	0 (757279.00)	2 (1.00)	692069 (0.00)	0 (692069.00)	0 (0.00)
<i>rsdedxmax</i>	757279 (1.00)	0 (757279.00)	2 (1.00)	692069 (1.00)	0 (692069.00)	0 (0.00)
<i>rsdedxcl</i>	757279 (1.00)	0 (757279.00)	2 (1.00)	692069 (1.00)	0 (692069.00)	0 (0.00)
<i>rslike</i>	757279 (1.00)	0 (757279.00)	2 (1.00)	692069 (1.00)	0 (692069.00)	0 (0.00)
<i>rngmom</i>	535731 (1.41)	221548 (3.42)	2 (1.00)	368106 (1.88)	323963 (2.14)	0 (0.00)
<i>pv(not tg)</i>	285245 (1.88)	324695 (2.33)	3 (1.50)	126519 (2.91)	343208 (2.02)	10 (10.00)
<i>bwtrs</i>	216593 (1.32)	176033 (4.30)	2 (1.00)	93039 (1.36)	164091 (4.22)	0 (0.00)
<i>b4trs</i>	189225 (1.14)	169185 (4.48)	2 (1.00)	79641 (1.17)	161573 (4.28)	0 (0.00)
<i>b4ccd</i>	188780 (1.00)	9098 (83.24)	2 (1.00)	79289 (1.00)	11199 (61.80)	0 (0.00)
<i>tgqualt</i>	174712 (1.08)	54119 (13.99)	2 (1.00)	70547 (1.12)	52835 (13.10)	0 (0.00)
<i>timcon</i>	173790 (1.01)	8896 (85.13)	2 (1.00)	69965 (1.01)	9923 (69.74)	0 (0.00)
<i>epitg</i>	171571 (1.01)	19581 (38.67)	2 (1.00)	67576 (1.04)	24503 (28.24)	0 (0.00)
<i>tger</i>	170421 (1.01)	20590 (36.78)	2 (1.00)	66791 (1.01)	20173 (34.31)	0 (0.00)
<i>targf</i>	162080 (1.05)	104400 (7.25)	4 (2.00)	61202 (1.09)	113785 (6.08)	0 (0.00)
<i>ticcon</i>	162077 (1.00)	116 (6528.27)	2 (1.00)	61201 (1.00)	194 (3567.37)	0 (0.00)
<i>dtgttp</i>	162057 (1.00)	650 (1165.04)	2 (1.00)	61198 (1.00)	463 (1494.75)	0 (0.00)
<i>rtdif</i>	155847 (1.04)	17804 (42.53)	2 (1.00)	59702 (1.03)	9415 (73.51)	0 (0.00)
<i>epimaxk</i>	147077 (1.06)	46636 (16.24)	2 (1.00)	54261 (1.10)	48396 (14.30)	0 (0.00)
<i>drp</i>	143007 (1.03)	13517 (56.02)	2 (1.00)	51992 (1.04)	11934 (57.99)	0 (0.00)
<i>phivtx1</i>	111676 (1.28)	167293 (4.53)	4 (2.00)	38518 (1.35)	159666 (4.33)	0 (0.00)
<i>eiccon</i>	108711 (1.03)	31957 (23.70)	2 (1.00)	37078 (1.04)	31784 (21.77)	0 (0.00)
<i>opsveto</i>	84684 (1.28)	232119 (3.26)	2 (1.00)	26439 (1.40)	228486 (3.03)	1 (1.00)
<i>kic</i>	76383 (1.11)	152601 (4.96)	2 (1.00)	24481 (1.08)	115553 (5.99)	0 (0.00)
<i>tggeo</i>	65826 (1.16)	316650 (2.39)	2 (1.00)	20546 (1.19)	284374 (2.43)	0 (0.00)
<i>tdedge</i>	61505 (1.07)	107373 (7.05)	2 (1.00)	19579 (1.05)	69100 (10.02)	0 (0.00)
<i>tzfzfool 787</i>	46475 (1.32)	191717 (3.95)	2 (1.00)	12717 (1.54)	192639 (3.59)	0 (0.00)
<i>upvtrs</i>	40352 (1.15)	60254 (12.57)	2 (1.00)	12120 (1.05)	22440 (30.84)	0 (0.00)
<i>rvtrs</i>	40202 (1.00)	15383 (49.23)	2 (1.00)	12056 (1.01)	13491 (51.30)	0 (0.00)
<i>tgtcon</i>	38000 (1.06)	60212 (12.58)	4 (2.00)	11323 (1.06)	59148 (11.70)	1 (1.00)
<i>b4etcon</i>	37032 (1.03)	23424 (32.33)	2 (1.00)	11097 (1.02)	18567 (37.27)	0 (0.00)
<i>b4abmfromfile</i>	20461 (1.81)	577041 (1.31)	227 (113.50)	2519 (4.41)	656882 (1.05)	422 (422.00)
<i>piflg</i>	20408 (1.00)	25722 (29.44)	2 (1.00)	2515 (1.00)	38711 (17.88)	0 (0.00)
<i>ev502</i>	16240 (1.26)	216199 (3.50)	2 (1.00)	2067 (1.22)	206251 (3.36)	0 (0.00)
<i>elveto</i>	14925 (1.09)	183187 (4.13)	2 (1.00)	1877 (1.10)	232742 (2.97)	0 (0.00)
<i>tdfool</i>	14887 (1.00)	133123 (5.69)	2 (1.00)	1869 (1.00)	184629 (3.75)	0 (0.00)
<i>tdvarnn02</i>	12211 (1.22)	281062 (2.69)	2 (1.00)	1543 (1.21)	333030 (2.08)	0 (0.00)
TD	12211 (1.00)	429657 (1.76)	2 (1.00)	1543 (1.00)	450809 (1.54)	0 (0.00)
<i>DELC(0.)</i>	2 (6105.50)	539794 (1.40)	12211 (6105.50)	0 (1543.00)	407790 (1.70)	1543 (1543.00)
Total Rej.		6105.50			1543.00	

Table 8: 1-Beam Rejection. Branch no. 3

Cuts	gaptgz seq	gaptgz single	gaptgz allbut	p2d2 seq	p2d2 single	p2d2 allbut	
<i>BOX</i>	757279 (0.00)	0 (757279.00)	1 (1.00)	692069 (0.00)	0 (692069.00)	0 (0.00)	15
<i>rsdedxmax</i>	757279 (1.00)	0 (757279.00)	1 (1.00)	692069 (1.00)	0 (692069.00)	0 (0.00)	15
<i>rsdedxcl</i>	757279 (1.00)	0 (757279.00)	1 (1.00)	692069 (1.00)	0 (692069.00)	0 (0.00)	15
<i>rslike</i>	757279 (1.00)	0 (757279.00)	1 (1.00)	692069 (1.00)	0 (692069.00)	0 (0.00)	15
<i>rngmom</i>	535731 (1.41)	221548 (3.42)	1 (1.00)	368106 (1.88)	323963 (2.14)	0 (0.00)	10
<i>pv(not tg)</i>	285245 (1.88)	324695 (2.33)	1 (1.00)	126519 (2.91)	343208 (2.02)	2 (2.00)	4
<i>bwtrs</i>	216593 (1.32)	176033 (4.30)	1 (1.00)	93039 (1.36)	164091 (4.22)	0 (0.00)	3
<i>b4trs</i>	189225 (1.14)	169185 (4.48)	1 (1.00)	79641 (1.17)	161573 (4.28)	0 (0.00)	3
<i>b4ccd</i>	188780 (1.00)	9098 (83.24)	1 (1.00)	79289 (1.00)	11199 (61.80)	0 (0.00)	3
<i>tgqualt</i>	174712 (1.08)	54119 (13.99)	1 (1.00)	70547 (1.12)	52835 (13.10)	0 (0.00)	2
<i>timcon</i>	173790 (1.01)	8896 (85.13)	1 (1.00)	69965 (1.01)	9923 (69.74)	0 (0.00)	2
<i>epitg</i>	171571 (1.01)	19581 (38.67)	1 (1.00)	67576 (1.04)	24503 (28.24)	0 (0.00)	2
<i>tger</i>	170421 (1.01)	20590 (36.78)	1 (1.00)	66791 (1.01)	20173 (34.31)	0 (0.00)	2
<i>targf</i>	162080 (1.05)	104400 (7.25)	1 (1.00)	61202 (1.09)	113785 (6.08)	0 (0.00)	2
<i>ticcon</i>	162077 (1.00)	116 (6528.27)	1 (1.00)	61201 (1.00)	194 (3567.37)	0 (0.00)	2
<i>dtgttp</i>	162057 (1.00)	650 (1165.04)	1 (1.00)	61198 (1.00)	463 (1494.75)	0 (0.00)	2
<i>rtdif</i>	155847 (1.04)	17804 (42.53)	1 (1.00)	59702 (1.03)	9415 (73.51)	0 (0.00)	2
<i>epimaxk</i>	147077 (1.06)	46636 (16.24)	1 (1.00)	54261 (1.10)	48396 (14.30)	0 (0.00)	2
<i>drp</i>	143007 (1.03)	13517 (56.02)	1 (1.00)	51992 (1.04)	11934 (57.99)	0 (0.00)	2
<i>phivtx1</i>	111676 (1.28)	167293 (4.53)	1 (1.00)	38518 (1.35)	159666 (4.33)	0 (0.00)	1
<i>eiccon</i>	108711 (1.03)	31957 (23.70)	1 (1.00)	37078 (1.04)	31784 (21.77)	0 (0.00)	1
<i>opsveto</i>	84684 (1.28)	232119 (3.26)	1 (1.00)	26439 (1.40)	228486 (3.03)	1 (1.00)	1
<i>kic</i>	76383 (1.11)	152601 (4.96)	1 (1.00)	24481 (1.08)	115553 (5.99)	0 (0.00)	1
<i>tggeo</i>	65826 (1.16)	316650 (2.39)	1 (1.00)	20546 (1.19)	284374 (2.43)	0 (0.00)	1
<i>tdedge</i>	61505 (1.07)	107373 (7.05)	1 (1.00)	19579 (1.05)	69100 (10.02)	0 (0.00)	1
<i>tzfzfool 787</i>	46475 (1.32)	191717 (3.95)	1 (1.00)	12717 (1.54)	192639 (3.59)	0 (0.00)	1
<i>upvtrs</i>	40352 (1.15)	60254 (12.57)	1 (1.00)	12120 (1.05)	22440 (30.84)	0 (0.00)	1
<i>rvtrs</i>	40202 (1.00)	15383 (49.23)	1 (1.00)	12056 (1.01)	13491 (51.30)	0 (0.00)	1
<i>tgtcon</i>	38000 (1.06)	60212 (12.58)	2 (2.00)	11323 (1.06)	59148 (11.70)	0 (0.00)	1
<i>b4etcon</i>	37032 (1.03)	23424 (32.33)	1 (1.00)	11097 (1.02)	18567 (37.27)	0 (0.00)	1
<i>b4abmfromfile</i>	20461 (1.81)	577041 (1.31)	109 (109.00)	2519 (4.41)	656882 (1.05)	228 (228.00)	
<i>piflg</i>	20408 (1.00)	25722 (29.44)	1 (1.00)	2515 (1.00)	38711 (17.88)	0 (0.00)	
<i>ev502</i>	16240 (1.26)	216199 (3.50)	1 (1.00)	2067 (1.22)	206251 (3.36)	0 (0.00)	
<i>elveto</i>	14925 (1.09)	183187 (4.13)	1 (1.00)	1877 (1.10)	232742 (2.97)	0 (0.00)	
<i>tdfool</i>	14887 (1.00)	133123 (5.69)	1 (1.00)	1869 (1.00)	184629 (3.75)	0 (0.00)	
<i>tdvarnn02</i>	12211 (1.22)	281062 (2.69)	1 (1.00)	1543 (1.21)	333030 (2.08)	0 (0.00)	
TD	12211 (1.00)	429657 (1.76)	1 (1.00)	1543 (1.00)	450809 (1.54)	0 (0.00)	
<i>BOX</i>	12211 (1.00)	0 (757279.00)	1 (1.00)	1543 (1.00)	0 (692069.00)	0 (0.00)	
<i>icodel14</i>	12211 (1.00)	4 (189320.00)	1 (1.00)	1543 (1.00)	3 (230690.00)	0 (0.00)	
<i>cos3d</i>	11492 (1.06)	57772 (13.11)	1 (1.00)	1479 (1.04)	51195 (13.52)	0 (0.00)	
<i>layv4</i>	11492 (1.00)	0 (757279.00)	1 (1.00)	1479 (1.00)	0 (692069.00)	0 (0.00)	
<i>zfrf</i>	11488 (1.00)	824 (919.03)	1 (1.00)	1479 (1.00)	871 (794.57)	0 (0.00)	
<i>zutout</i>	11484 (1.00)	589 (1285.70)	1 (1.00)	1479 (1.00)	494 (1400.95)	0 (0.00)	
FIDUCIAL	11484 (1.00)	58856 (12.87)	1 (1.00)	1479 (1.00)	52266 (13.24)	0 (0.00)	
<i>utcqual</i>	9996 (1.15)	152609 (4.96)	1 (1.00)	1304 (1.13)	140324 (4.93)	0 (0.00)	
<i>rsdedxcl</i>	9996 (1.00)	0 (757279.00)	1 (1.00)	1304 (1.00)	0 (692069.00)	0 (0.00)	

Cuts	gaptgz seq	gaptgz single	gaptgz allbut	p2d2 seq	p2d2 single	p2d2 allbut	2bm
<i>rsdedxmax</i>	9996 (1.00)	0 (757279.00)	1 (1.00)	1304 (1.00)	0 (692069.00)	0 (0.00)	14418
<i>rslike</i>	9996 (1.00)	0 (757279.00)	1 (1.00)	1304 (1.00)	0 (692069.00)	0 (0.00)	14418
<i>rngmom</i>	9996 (1.00)	221548 (3.42)	1 (1.00)	1304 (1.00)	323963 (2.14)	0 (0.00)	14418
<i>prrf1</i>	9696 (1.03)	24351 (31.10)	1 (1.00)	1268 (1.03)	23039 (30.04)	0 (0.00)	13971
<i>prrfz</i>	9259 (1.05)	51435 (14.72)	1 (1.00)	1219 (1.04)	38963 (17.76)	0 (0.00)	13327
PRRF	9259 (1.00)	73237 (10.34)	1 (1.00)	1219 (1.00)	59838 (11.57)	0 (0.00)	13327
<i>rtghi</i>	9253 (1.00)	2440 (310.36)	1 (1.00)	1218 (1.00)	2504 (276.38)	0 (0.00)	13320
<i>etghi</i>	9154 (1.01)	18315 (41.35)	1 (1.00)	1202 (1.01)	17454 (39.65)	0 (0.00)	13188
<i>tgdedx1</i>	8175 (1.12)	135234 (5.60)	1 (1.00)	1056 (1.14)	126083 (5.49)	0 (0.00)	11876
<i>tgdedx2</i>	7979 (1.02)	63266 (11.97)	1 (1.00)	1041 (1.01)	58191 (11.89)	0 (0.00)	11597
tgdedx	7979 (1.00)	209024 (3.62)	1 (1.00)	1041 (1.00)	194649 (3.56)	0 (0.00)	11597
<i>tglike1</i>	7612 (1.05)	107642 (7.04)	1 (1.00)	1000 (1.04)	103324 (6.70)	0 (0.00)	11074
<i>tglike2</i>	7300 (1.04)	97149 (7.80)	1 (1.00)	950 (1.05)	91103 (7.60)	0 (0.00)	10615
TGLIKE	7300 (1.00)	146044 (5.19)	1 (1.00)	950 (1.00)	138382 (5.00)	0 (0.00)	10615
<i>t gdb4</i>	7135 (1.02)	60401 (12.54)	1 (1.00)	913 (1.04)	58545 (11.82)	0 (0.00)	10364
<i>t gdb4tip</i>	5145 (1.39)	206299 (3.67)	1 (1.00)	823 (1.11)	146471 (4.72)	0 (0.00)	7641
<i>t gdvxtip</i>	4328 (1.19)	124124 (6.10)	1 (1.00)	748 (1.10)	69430 (9.97)	0 (0.00)	6485
<i>t gdvxpi</i>	3976 (1.09)	86023 (8.80)	1 (1.00)	665 (1.12)	72433 (9.55)	0 (0.00)	5971
TGB4	3976 (1.00)	311662 (2.43)	1 (1.00)	665 (1.00)	222180 (3.11)	0 (0.00)	5971
<i>pigap</i>	3895 (1.02)	68054 (11.13)	1 (1.00)	650 (1.02)	66693 (10.38)	0 (0.00)	5866
KIN	3895 (1.00)	641435 (1.18)	1 (1.00)	650 (1.00)	603679 (1.15)	0 (0.00)	5866
<i>DELC(0.)</i>	1 (3895.00)	539794 (1.40)	3895 (3895.00)	0 (650.00)	407790 (1.70)	650 (650.00)	1 (5
Total Rej.		3895.00			650.00		

Table 9: 1-Beam Normalization. Branch no. 1

Cuts	gaptgz seq	gaptgz single	gaptgz allbut	p2d2 seq	p2d2 single	p2d2 allbut	2b
BOX	757279 (0.00)	0 (757279.00)	0 (0.00)	692069 (0.00)	0 (692069.00)	1 (1.00)	15782
<i>rsdedxmax</i>	757279 (1.00)	0 (757279.00)	0 (0.00)	692069 (1.00)	0 (692069.00)	1 (1.00)	15782
<i>rsdedxcl</i>	757279 (1.00)	0 (757279.00)	0 (0.00)	692069 (1.00)	0 (692069.00)	1 (1.00)	15782
<i>rslike</i>	757279 (1.00)	0 (757279.00)	0 (0.00)	692069 (1.00)	0 (692069.00)	1 (1.00)	15782
<i>rngmom</i>	535731 (1.41)	221548 (3.42)	0 (0.00)	368106 (1.88)	323963 (2.14)	1 (1.00)	10271
BOX	535731 (1.00)	0 (757279.00)	0 (0.00)	368106 (1.00)	0 (692069.00)	1 (1.00)	10271
<i>icodel14</i>	535731 (1.00)	4 (189320.00)	0 (0.00)	368106 (1.00)	3 (230690.00)	1 (1.00)	10271
<i>cos3d</i>	487647 (1.10)	57772 (13.11)	0 (0.00)	329841 (1.12)	51195 (13.52)	1 (1.00)	9364
<i>layv4</i>	487647 (1.00)	0 (757279.00)	0 (0.00)	329841 (1.00)	0 (692069.00)	1 (1.00)	9364
<i>zfrf</i>	487326 (1.00)	824 (919.03)	0 (0.00)	329626 (1.00)	871 (794.57)	1 (1.00)	9352
<i>zutout</i>	487027 (1.00)	589 (1285.70)	0 (0.00)	329427 (1.00)	494 (1400.95)	1 (1.00)	9347
FIDUCIAL	487027 (1.00)	58856 (12.87)	0 (0.00)	329427 (1.00)	52266 (13.24)	1 (1.00)	9347
<i>utcqual</i>	404095 (1.21)	152609 (4.96)	0 (0.00)	271522 (1.21)	140324 (4.93)	1 (1.00)	7768
<i>rsdedxcl</i>	404095 (1.00)	0 (757279.00)	0 (0.00)	271522 (1.00)	0 (692069.00)	1 (1.00)	7768
<i>rsdedxmax</i>	404095 (1.00)	0 (757279.00)	0 (0.00)	271522 (1.00)	0 (692069.00)	1 (1.00)	7768
<i>rslike</i>	404095 (1.00)	0 (757279.00)	0 (0.00)	271522 (1.00)	0 (692069.00)	1 (1.00)	7768
<i>tgktim</i>	404095 (1.00)	0 (757279.00)	0 (0.00)	271522 (1.00)	0 (692069.00)	1 (1.00)	7768
<i>rngmom</i>	404095 (1.00)	221548 (3.42)	0 (0.00)	271522 (1.00)	323963 (2.14)	1 (1.00)	7768
<i>prrf1</i>	393020 (1.03)	24351 (31.10)	0 (0.00)	265310 (1.02)	23039 (30.04)	1 (1.00)	7558
<i>prrfz</i>	371058 (1.06)	51435 (14.72)	0 (0.00)	252415 (1.05)	38963 (17.76)	1 (1.00)	7148
PRRF	371058 (1.00)	73237 (10.34)	0 (0.00)	252415 (1.00)	59838 (11.57)	1 (1.00)	7148
<i>rtghi</i>	370531 (1.00)	2440 (310.36)	0 (0.00)	252064 (1.00)	2504 (276.38)	1 (1.00)	7139
<i>etghi</i>	363266 (1.02)	18315 (41.35)	0 (0.00)	246711 (1.02)	17454 (39.65)	1 (1.00)	7008
<i>tgdedx1</i>	283173 (1.28)	135234 (5.60)	0 (0.00)	177416 (1.39)	126083 (5.49)	1 (1.00)	5396
<i>tgdedx2</i>	257366 (1.10)	63266 (11.97)	0 (0.00)	159915 (1.11)	58191 (11.89)	1 (1.00)	4902
tgdedx	257366 (1.00)	209024 (3.62)	0 (0.00)	159915 (1.00)	194649 (3.56)	1 (1.00)	4902
<i>tglike1</i>	234179 (1.10)	107642 (7.04)	0 (0.00)	143219 (1.12)	103324 (6.70)	1 (1.00)	4441
<i>tglike2</i>	221138 (1.06)	97149 (7.80)	0 (0.00)	135574 (1.06)	91103 (7.60)	1 (1.00)	4196
TGLIKE	221138 (1.00)	146044 (5.19)	0 (0.00)	135574 (1.00)	138382 (5.00)	1 (1.00)	4196
<i>tgdb4</i>	204618 (1.08)	60401 (12.54)	0 (0.00)	122534 (1.11)	58545 (11.82)	1 (1.00)	3860
<i>tgdb4tip</i>	153054 (1.34)	206299 (3.67)	0 (0.00)	106648 (1.15)	146471 (4.72)	1 (1.00)	3008
<i>tgdvxtip</i>	131607 (1.16)	124124 (6.10)	0 (0.00)	98924 (1.08)	69430 (9.97)	1 (1.00)	2647
<i>tgdvxpi</i>	122502 (1.07)	86023 (8.80)	0 (0.00)	93036 (1.06)	72433 (9.55)	1 (1.00)	2480
TGB4	122502 (1.00)	311662 (2.43)	0 (0.00)	93036 (1.00)	222180 (3.11)	1 (1.00)	2480
<i>pigap</i>	115844 (1.06)	68054 (11.13)	0 (0.00)	88390 (1.05)	66693 (10.38)	1 (1.00)	2354
KIN	115844 (1.00)	641435 (1.18)	0 (0.00)	88390 (1.00)	603679 (1.15)	1 (1.00)	2354
<i>tgpv</i>	84684 (1.37)	227378 (3.33)	0 (0.00)	52567 (1.68)	263082 (2.63)	1 (1.00)	1583
<i>bwtrs</i>	75092 (1.13)	176033 (4.30)	0 (0.00)	48055 (1.09)	164091 (4.22)	1 (1.00)	1413
<i>b4trs</i>	68322 (1.10)	169185 (4.48)	0 (0.00)	44082 (1.09)	161573 (4.28)	1 (1.00)	1288
<i>b4ccd</i>	67855 (1.01)	9098 (83.24)	0 (0.00)	43546 (1.01)	11199 (61.80)	1 (1.00)	1278
<i>tgqualt</i>	62278 (1.09)	54119 (13.99)	0 (0.00)	39121 (1.11)	52835 (13.10)	1 (1.00)	1153
<i>timcon</i>	61878 (1.01)	8896 (85.13)	0 (0.00)	38656 (1.01)	9923 (69.74)	1 (1.00)	1144
<i>epitg</i>	61808 (1.00)	19581 (38.67)	0 (0.00)	38571 (1.00)	24503 (28.24)	1 (1.00)	1143
<i>tger</i>	61783 (1.00)	20590 (36.78)	0 (0.00)	38552 (1.00)	20173 (34.31)	1 (1.00)	1142
<i>targf</i>	59072 (1.05)	104400 (7.25)	0 (0.00)	36377 (1.06)	113785 (6.08)	1 (1.00)	1089
<i>ticcon</i>	59071 (1.00)	116 (6528.27)	0 (0.00)	36377 (1.00)	194 (3567.37)	1 (1.00)	1089

Cuts	gaptgz seq	gaptgz single	gaptgz allbut	p2d2 seq	p2d2 single	p2d2 allbut	2bmrej
<i>dtgttp</i>	59071 (1.00)	650 (1165.04)	0 (0.00)	36377 (1.00)	463 (1494.75)	1 (1.00)	108963 (1)
<i>rtdif</i>	58141 (1.02)	17804 (42.53)	0 (0.00)	35839 (1.02)	9415 (73.51)	1 (1.00)	107260 (1)
<i>epimaxk</i>	57026 (1.02)	46636 (16.24)	0 (0.00)	35086 (1.02)	48396 (14.30)	1 (1.00)	105242 (1)
<i>drp</i>	56635 (1.01)	13517 (56.02)	0 (0.00)	34820 (1.01)	11934 (57.99)	1 (1.00)	104418 (1)
<i>phivtx1</i>	47992 (1.18)	167293 (4.53)	0 (0.00)	29334 (1.19)	159666 (4.33)	1 (1.00)	88306 (1)
<i>eiccon</i>	46914 (1.02)	31957 (23.70)	0 (0.00)	28695 (1.02)	31784 (21.77)	1 (1.00)	86394 (1)
<i>opsveto</i>	39297 (1.19)	232119 (3.26)	0 (0.00)	24598 (1.17)	228486 (3.03)	1 (1.00)	72401 (1)
<i>kic</i>	34541 (1.14)	152601 (4.96)	0 (0.00)	23219 (1.06)	115553 (5.99)	1 (1.00)	64866 (1)
<i>tggeo</i>	28757 (1.20)	316650 (2.39)	0 (0.00)	18871 (1.23)	284374 (2.43)	1 (1.00)	53330 (1)
<i>tdedge</i>	27869 (1.03)	107373 (7.05)	0 (0.00)	18532 (1.02)	69100 (10.02)	1 (1.00)	51875 (1)
<i>tgzfool</i> 787	23118 (1.21)	191717 (3.95)	0 (0.00)	16081 (1.15)	192639 (3.59)	1 (1.00)	43495 (1)
<i>upvtrs</i>	20829 (1.11)	60254 (12.57)	0 (0.00)	15629 (1.03)	22440 (30.84)	1 (1.00)	40175 (1)
<i>rvtrs</i>	20756 (1.00)	15383 (49.23)	0 (0.00)	15577 (1.00)	13491 (51.30)	1 (1.00)	40038 (1)
<i>tgtcon</i>	18266 (1.14)	60212 (12.58)	0 (0.00)	12116 (1.29)	59148 (11.70)	1 (1.00)	33991 (1)
<i>b4etcon</i>	17890 (1.02)	23424 (32.33)	0 (0.00)	11978 (1.01)	18567 (37.27)	1 (1.00)	33388 (1)
<i>b4ekz</i>	6989 (2.56)	517417 (1.46)	0 (0.00)	8235 (1.45)	398099 (1.74)	1 (1.00)	15732 (2)
<i>b4ekzic</i>	6989 (1.00)	78027 (9.71)	0 (0.00)	8235 (1.00)	66520 (10.40)	1 (1.00)	15732 (1)
<i>b4tim</i>	4671 (1.50)	391850 (1.93)	0 (0.00)	6560 (1.26)	257014 (2.69)	1 (1.00)	11263 (1)
<i>tgktim</i>	4671 (1.00)	0 (757279.00)	0 (0.00)	6560 (1.00)	0 (692069.00)	1 (1.00)	11263 (1)
<i>tgenr</i>	4627 (1.01)	92036 (8.23)	0 (0.00)	6476 (1.01)	88255 (7.84)	1 (1.00)	11133 (1)
<i>chi567</i>	2940 (1.57)	507318 (1.49)	0 (0.00)	4120 (1.57)	468327 (1.48)	1 (1.00)	7078 (1)
<i>npitg</i>	2940 (1.00)	54119 (13.99)	0 (0.00)	4120 (1.00)	52835 (13.10)	1 (1.00)	7078 (1)
<i>verrng</i>	2514 (1.17)	319156 (2.37)	0 (0.00)	3545 (1.16)	295630 (2.34)	1 (1.00)	6071 (1)
<i>chi5max</i>	2514 (1.00)	3202 (236.50)	0 (0.00)	3545 (1.00)	4129 (167.61)	1 (1.00)	6071 (1)
<i>angli</i>	2508 (1.00)	53142 (14.25)	0 (0.00)	3538 (1.00)	51337 (13.48)	1 (1.00)	6058 (1)
<i>ALLKfit</i>	2075 (1.21)	288984 (2.62)	0 (0.00)	3032 (1.17)	195616 (3.54)	1 (1.00)	5112 (1)
<i>tpics</i>	1885 (1.10)	96937 (7.81)	0 (0.00)	2774 (1.09)	93388 (7.41)	1 (1.00)	4663 (1)
<i>epionk</i>	1855 (1.02)	21759 (34.80)	0 (0.00)	2711 (1.02)	29325 (23.60)	1 (1.00)	4570 (1)
<i>ccdpul</i>	246 (7.54)	537948 (1.41)	0 (0.00)	335 (8.09)	473954 (1.46)	1 (1.00)	581 (7)
<i>timkf</i>	174 (1.41)	549157 (1.38)	0 (0.00)	265 (1.26)	431325 (1.60)	1 (1.00)	439 (1)
<i>DELC(0.)</i>	44 (3.95)	217485 (3.48)	4 (4.00)	67 (3.96)	284279 (2.43)	7 (7.00)	111 (3)
<i>cpitrs</i>	44 (1.00)	315320 (2.40)	0 (0.00)	67 (1.00)	15592 (44.39)	1 (1.00)	111 (1)
<i>cpitail</i>	44 (1.00)	56049 (13.51)	0 (0.00)	67 (1.00)	1662 (416.41)	1 (1.00)	111 (1)
<i>b4dedx</i>	44 (1.00)	210864 (3.59)	0 (0.00)	65 (1.03)	48858 (14.16)	1 (1.00)	109 (1)
<i>cktrs</i>	15 (2.93)	265254 (2.85)	1 (1.00)	22 (2.95)	390590 (1.77)	2 (2.00)	37 (2)
<i>cktai</i>	9 (1.67)	169366 (4.47)	0 (0.00)	16 (1.38)	211277 (3.28)	1 (1.00)	25 (1)
<i>PV</i>	0 (9.00)	430314 (1.76)	5 (5.00)	1 (16.00)	454459 (1.52)	13 (13.00)	1 (25)
<i>piflg</i>	0 (0.00)	25722 (29.44)	0 (0.00)	1 (1.00)	38711 (17.88)	1 (1.00)	1 (1)
<i>ev502</i>	0 (0.00)	216199 (3.50)	0 (0.00)	1 (1.00)	206251 (3.36)	1 (1.00)	1 (1)
<i>elveto</i>	0 (0.00)	183187 (4.13)	0 (0.00)	1 (1.00)	232742 (2.97)	1 (1.00)	1 (1)
<i>tdfool</i>	0 (0.00)	133123 (5.69)	0 (0.00)	1 (1.00)	184629 (3.75)	1 (1.00)	1 (1)
<i>tdvarnn02</i>	0 (0.00)	281062 (2.69)	0 (0.00)	1 (1.00)	333030 (2.08)	1 (1.00)	1 (1)
TD	0 (0.00)	429657 (1.76)	0 (0.00)	1 (1.00)	450809 (1.54)	1 (1.00)	1 (1)
Total Rej.		44.00			67.00		

Table 10: 1-Beam Normalization. Branch no. 2

Cuts	gaptgz seq	gaptgz single	gaptgz allbut	p2d2 seq	p2d2 single	p2d2 allbut	2b
BOX	757279 (0.00)	0 (757279.00)	4 (1.00)	692069 (0.00)	0 (692069.00)	4 (1.00)	15782
<i>rsdedxmax</i>	757279 (1.00)	0 (757279.00)	4 (1.00)	692069 (1.00)	0 (692069.00)	4 (1.00)	15782
<i>rsdedxcl</i>	757279 (1.00)	0 (757279.00)	4 (1.00)	692069 (1.00)	0 (692069.00)	4 (1.00)	15782
<i>rslike</i>	757279 (1.00)	0 (757279.00)	4 (1.00)	692069 (1.00)	0 (692069.00)	4 (1.00)	15782
<i>rngmom</i>	535731 (1.41)	221548 (3.42)	4 (1.00)	368106 (1.88)	323963 (2.14)	4 (1.00)	10271
BOX	535731 (1.00)	0 (757279.00)	4 (1.00)	368106 (1.00)	0 (692069.00)	4 (1.00)	10271
<i>icodel14</i>	535731 (1.00)	4 (189320.00)	4 (1.00)	368106 (1.00)	3 (230690.00)	4 (1.00)	10271
<i>cos3d</i>	487647 (1.10)	57772 (13.11)	4 (1.00)	329841 (1.12)	51195 (13.52)	4 (1.00)	9364
<i>layv4</i>	487647 (1.00)	0 (757279.00)	4 (1.00)	329841 (1.00)	0 (692069.00)	4 (1.00)	9364
<i>zfrf</i>	487326 (1.00)	824 (919.03)	4 (1.00)	329626 (1.00)	871 (794.57)	4 (1.00)	9352
<i>zutout</i>	487027 (1.00)	589 (1285.70)	4 (1.00)	329427 (1.00)	494 (1400.95)	4 (1.00)	9347
FIDUCIAL	487027 (1.00)	58856 (12.87)	4 (1.00)	329427 (1.00)	52266 (13.24)	4 (1.00)	9347
<i>utcqual</i>	404095 (1.21)	152609 (4.96)	4 (1.00)	271522 (1.21)	140324 (4.93)	4 (1.00)	7768
<i>rsdedxcl</i>	404095 (1.00)	0 (757279.00)	4 (1.00)	271522 (1.00)	0 (692069.00)	4 (1.00)	7768
<i>rsdedxmax</i>	404095 (1.00)	0 (757279.00)	4 (1.00)	271522 (1.00)	0 (692069.00)	4 (1.00)	7768
<i>rslike</i>	404095 (1.00)	0 (757279.00)	4 (1.00)	271522 (1.00)	0 (692069.00)	4 (1.00)	7768
<i>tgktim</i>	404095 (1.00)	0 (757279.00)	4 (1.00)	271522 (1.00)	0 (692069.00)	4 (1.00)	7768
<i>rngmom</i>	404095 (1.00)	221548 (3.42)	4 (1.00)	271522 (1.00)	323963 (2.14)	4 (1.00)	7768
<i>prrf1</i>	393020 (1.03)	24351 (31.10)	4 (1.00)	265310 (1.02)	23039 (30.04)	4 (1.00)	7558
<i>prrfz</i>	371058 (1.06)	51435 (14.72)	4 (1.00)	252415 (1.05)	38963 (17.76)	4 (1.00)	7148
PRRF	371058 (1.00)	73237 (10.34)	4 (1.00)	252415 (1.00)	59838 (11.57)	4 (1.00)	7148
<i>rtghi</i>	370531 (1.00)	2440 (310.36)	4 (1.00)	252064 (1.00)	2504 (276.38)	4 (1.00)	7139
<i>etghi</i>	363266 (1.02)	18315 (41.35)	4 (1.00)	246711 (1.02)	17454 (39.65)	4 (1.00)	7008
<i>tgdedx1</i>	283173 (1.28)	135234 (5.60)	4 (1.00)	177416 (1.39)	126083 (5.49)	4 (1.00)	5396
<i>tgdedx2</i>	257366 (1.10)	63266 (11.97)	4 (1.00)	159915 (1.11)	58191 (11.89)	4 (1.00)	4902
tgdedx	257366 (1.00)	209024 (3.62)	4 (1.00)	159915 (1.00)	194649 (3.56)	4 (1.00)	4902
<i>tglike1</i>	234179 (1.10)	107642 (7.04)	4 (1.00)	143219 (1.12)	103324 (6.70)	4 (1.00)	4441
<i>tglike2</i>	221138 (1.06)	97149 (7.80)	4 (1.00)	135574 (1.06)	91103 (7.60)	4 (1.00)	4196
TGLIKE	221138 (1.00)	146044 (5.19)	4 (1.00)	135574 (1.00)	138382 (5.00)	4 (1.00)	4196
<i>tgdb4</i>	204618 (1.08)	60401 (12.54)	4 (1.00)	122534 (1.11)	58545 (11.82)	4 (1.00)	3860
<i>tgdb4tip</i>	153054 (1.34)	206299 (3.67)	4 (1.00)	106648 (1.15)	146471 (4.72)	4 (1.00)	3008
<i>tgdvxtip</i>	131607 (1.16)	124124 (6.10)	4 (1.00)	98924 (1.08)	69430 (9.97)	4 (1.00)	2647
<i>tgdvxpi</i>	122502 (1.07)	86023 (8.80)	4 (1.00)	93036 (1.06)	72433 (9.55)	4 (1.00)	2480
TGB4	122502 (1.00)	311662 (2.43)	4 (1.00)	93036 (1.00)	222180 (3.11)	4 (1.00)	2480
<i>pigap</i>	115844 (1.06)	68054 (11.13)	4 (1.00)	88390 (1.05)	66693 (10.38)	4 (1.00)	2354
KIN	115844 (1.00)	641435 (1.18)	4 (1.00)	88390 (1.00)	603679 (1.15)	4 (1.00)	2354
<i>tgpv</i>	84684 (1.37)	227378 (3.33)	4 (1.00)	52567 (1.68)	263082 (2.63)	4 (1.00)	1583
<i>bwtrs</i>	75092 (1.13)	176033 (4.30)	4 (1.00)	48055 (1.09)	164091 (4.22)	5 (1.25)	1413
<i>b4trs</i>	68322 (1.10)	169185 (4.48)	4 (1.00)	44082 (1.09)	161573 (4.28)	4 (1.00)	1288
<i>b4ccd</i>	67855 (1.01)	9098 (83.24)	4 (1.00)	43546 (1.01)	11199 (61.80)	4 (1.00)	1278
<i>tgqualt</i>	62278 (1.09)	54119 (13.99)	4 (1.00)	39121 (1.11)	52835 (13.10)	4 (1.00)	1153
<i>timcon</i>	61878 (1.01)	8896 (85.13)	4 (1.00)	38656 (1.01)	9923 (69.74)	4 (1.00)	1144
<i>epitg</i>	61808 (1.00)	19581 (38.67)	4 (1.00)	38571 (1.00)	24503 (28.24)	4 (1.00)	1143
<i>tger</i>	61783 (1.00)	20590 (36.78)	4 (1.00)	38552 (1.00)	20173 (34.31)	4 (1.00)	1142
<i>targf</i>	59072 (1.05)	104400 (7.25)	4 (1.00)	36377 (1.06)	113785 (6.08)	4 (1.00)	1089
<i>ticcon</i>	59071 (1.00)	116 (6528.27)	4 (1.00)	36377 (1.00)	194 (3567.37)	4 (1.00)	1089

Cuts	gaptgz seq	gaptgz single	gaptgz allbut	p2d2 seq	p2d2 single	p2d2 allbut	2bmre
<i>dtgttp</i>	59071 (1.00)	650 (1165.04)	4 (1.00)	36377 (1.00)	463 (1494.75)	4 (1.00)	108963 (
<i>rtdif</i>	58141 (1.02)	17804 (42.53)	4 (1.00)	35839 (1.02)	9415 (73.51)	4 (1.00)	107260 (
<i>epimaxk</i>	57026 (1.02)	46636 (16.24)	4 (1.00)	35086 (1.02)	48396 (14.30)	4 (1.00)	105242 (
<i>drp</i>	56635 (1.01)	13517 (56.02)	4 (1.00)	34820 (1.01)	11934 (57.99)	4 (1.00)	104418 (
<i>phivtx1</i>	47992 (1.18)	167293 (4.53)	4 (1.00)	29334 (1.19)	159666 (4.33)	5 (1.25)	88306 (
<i>eiccon</i>	46914 (1.02)	31957 (23.70)	4 (1.00)	28695 (1.02)	31784 (21.77)	4 (1.00)	86394 (
<i>opsveto</i>	39297 (1.19)	232119 (3.26)	5 (1.25)	24598 (1.17)	228486 (3.03)	7 (1.75)	72401 (
<i>kic</i>	34541 (1.14)	152601 (4.96)	4 (1.00)	23219 (1.06)	115553 (5.99)	4 (1.00)	64866 (
<i>tgeo</i>	28757 (1.20)	316650 (2.39)	5 (1.25)	18871 (1.23)	284374 (2.43)	5 (1.25)	53330 (
<i>tdedge</i>	27869 (1.03)	107373 (7.05)	4 (1.00)	18532 (1.02)	69100 (10.02)	4 (1.00)	51875 (
<i>tgzfool</i> 787	23118 (1.21)	191717 (3.95)	5 (1.25)	16081 (1.15)	192639 (3.59)	5 (1.25)	43495 (
<i>upvtrs</i>	20829 (1.11)	60254 (12.57)	4 (1.00)	15629 (1.03)	22440 (30.84)	4 (1.00)	40175 (
<i>rvtrs</i>	20756 (1.00)	15383 (49.23)	4 (1.00)	15577 (1.00)	13491 (51.30)	4 (1.00)	40038 (
<i>tgtcon</i>	18266 (1.14)	60212 (12.58)	4 (1.00)	12116 (1.29)	59148 (11.70)	4 (1.00)	33991 (
<i>b4etcon</i>	17890 (1.02)	23424 (32.33)	4 (1.00)	11978 (1.01)	18567 (37.27)	4 (1.00)	33388 (
<i>b4ekz</i>	6989 (2.56)	517417 (1.46)	9 (2.25)	8235 (1.45)	398099 (1.74)	4 (1.00)	15732 (
<i>b4ekzic</i>	6989 (1.00)	78027 (9.71)	4 (1.00)	8235 (1.00)	66520 (10.40)	4 (1.00)	15732 (
<i>b4tim</i>	4671 (1.50)	391850 (1.93)	4 (1.00)	6560 (1.26)	257014 (2.69)	4 (1.00)	11263 (
<i>tgktim</i>	4671 (1.00)	0 (757279.00)	4 (1.00)	6560 (1.00)	0 (692069.00)	4 (1.00)	11263 (
<i>tgenr</i>	4627 (1.01)	92036 (8.23)	4 (1.00)	6476 (1.01)	88255 (7.84)	4 (1.00)	11133 (
<i>chi567</i>	2940 (1.57)	507318 (1.49)	5 (1.25)	4120 (1.57)	468327 (1.48)	4 (1.00)	7078 (
<i>npitg</i>	2940 (1.00)	54119 (13.99)	4 (1.00)	4120 (1.00)	52835 (13.10)	4 (1.00)	7078 (
<i>verrng</i>	2514 (1.17)	319156 (2.37)	6 (1.50)	3545 (1.16)	295630 (2.34)	6 (1.50)	6071 (
<i>chi5max</i>	2514 (1.00)	3202 (236.50)	4 (1.00)	3545 (1.00)	4129 (167.61)	4 (1.00)	6071 (
<i>angli</i>	2508 (1.00)	53142 (14.25)	4 (1.00)	3538 (1.00)	51337 (13.48)	4 (1.00)	6058 (
<i>ALLKfit</i>	2075 (1.21)	288984 (2.62)	10 (2.50)	3032 (1.17)	195616 (3.54)	18 (4.50)	5112 (
<i>tpics</i>	1885 (1.10)	96937 (7.81)	5 (1.25)	2774 (1.09)	93388 (7.41)	5 (1.25)	4663 (
<i>epionk</i>	1855 (1.02)	21759 (34.80)	4 (1.00)	2711 (1.02)	29325 (23.60)	4 (1.00)	4570 (
<i>ccdpul</i>	246 (7.54)	537948 (1.41)	27 (6.75)	335 (8.09)	473954 (1.46)	34 (8.50)	581 (
<i>timkf</i>	174 (1.41)	549157 (1.38)	5 (1.25)	265 (1.26)	431325 (1.60)	5 (1.25)	439 (
<i>DELC(0.)</i>	44 (3.95)	217485 (3.48)	4 (1.00)	67 (3.96)	284279 (2.43)	4 (1.00)	111 (
<i>cpitrs</i>	44 (1.00)	315320 (2.40)	4 (1.00)	67 (1.00)	15592 (44.39)	4 (1.00)	111 (
<i>cpitail</i>	44 (1.00)	56049 (13.51)	4 (1.00)	67 (1.00)	1662 (416.41)	4 (1.00)	111 (
<i>b4dedx</i>	44 (1.00)	210864 (3.59)	4 (1.00)	65 (1.03)	48858 (14.16)	6 (1.50)	109 (
<i>cktrs · cktail</i>	35 (1.26)	458175 (1.65)	4 (1.00)	49 (1.33)	272011 (2.54)	5 (1.25)	84 (
<i>PV</i>	6 (5.83)	430314 (1.76)	22 (5.50)	12 (4.08)	454459 (1.52)	27 (6.75)	18 (
<i>piflg</i>	6 (1.00)	25722 (29.44)	4 (1.00)	12 (1.00)	38711 (17.88)	4 (1.00)	18 (
<i>ev502</i>	4 (1.50)	216199 (3.50)	4 (1.00)	8 (1.50)	206251 (3.36)	4 (1.00)	12 (
<i>elveto</i>	4 (1.00)	183187 (4.13)	4 (1.00)	7 (1.14)	232742 (2.97)	4 (1.00)	11 (
<i>tdfool</i>	4 (1.00)	133123 (5.69)	4 (1.00)	7 (1.00)	184629 (3.75)	4 (1.00)	11 (
<i>tdvarnn02</i>	4 (1.00)	281062 (2.69)	4 (1.00)	4 (1.75)	333030 (2.08)	4 (1.00)	8 (
TD	4 (1.00)	429657 (1.76)	4 (1.00)	4 (1.00)	450809 (1.54)	4 (1.00)	8 (
Total Rej.		8.75			12.25		

Table 11: 1-Beam Normalization. Branch no. 3

Cuts	gaptgz seq	gaptgz single	gaptgz allbut	p2d2 seq	p2d2 single	p2d2 allbut	2b
BOX	757279 (0.00)	0 (757279.00)	9 (1.00)	692069 (0.00)	0 (692069.00)	15 (1.00)	15782
<i>rsdedxmax</i>	757279 (1.00)	0 (757279.00)	9 (1.00)	692069 (1.00)	0 (692069.00)	15 (1.00)	15782
<i>rsdedxcl</i>	757279 (1.00)	0 (757279.00)	9 (1.00)	692069 (1.00)	0 (692069.00)	15 (1.00)	15782
<i>rslike</i>	757279 (1.00)	0 (757279.00)	9 (1.00)	692069 (1.00)	0 (692069.00)	15 (1.00)	15782
<i>rngmom</i>	535731 (1.41)	221548 (3.42)	9 (1.00)	368106 (1.88)	323963 (2.14)	15 (1.00)	10271
BOX	535731 (1.00)	0 (757279.00)	9 (1.00)	368106 (1.00)	0 (692069.00)	15 (1.00)	10271
<i>icodel14</i>	535731 (1.00)	4 (189320.00)	9 (1.00)	368106 (1.00)	3 (230690.00)	15 (1.00)	10271
<i>cos3d</i>	487647 (1.10)	57772 (13.11)	9 (1.00)	329841 (1.12)	51195 (13.52)	15 (1.00)	9364
<i>layv4</i>	487647 (1.00)	0 (757279.00)	9 (1.00)	329841 (1.00)	0 (692069.00)	15 (1.00)	9364
<i>zfrf</i>	487326 (1.00)	824 (919.03)	9 (1.00)	329626 (1.00)	871 (794.57)	15 (1.00)	9352
<i>zutout</i>	487027 (1.00)	589 (1285.70)	9 (1.00)	329427 (1.00)	494 (1400.95)	15 (1.00)	9347
FIDUCIAL	487027 (1.00)	58856 (12.87)	9 (1.00)	329427 (1.00)	52266 (13.24)	15 (1.00)	9347
<i>utcqual</i>	404095 (1.21)	152609 (4.96)	9 (1.00)	271522 (1.21)	140324 (4.93)	15 (1.00)	7768
<i>rsdedxcl</i>	404095 (1.00)	0 (757279.00)	9 (1.00)	271522 (1.00)	0 (692069.00)	15 (1.00)	7768
<i>rsdedxmax</i>	404095 (1.00)	0 (757279.00)	9 (1.00)	271522 (1.00)	0 (692069.00)	15 (1.00)	7768
<i>rslike</i>	404095 (1.00)	0 (757279.00)	9 (1.00)	271522 (1.00)	0 (692069.00)	15 (1.00)	7768
<i>tgktim</i>	404095 (1.00)	0 (757279.00)	9 (1.00)	271522 (1.00)	0 (692069.00)	15 (1.00)	7768
<i>rngmom</i>	404095 (1.00)	221548 (3.42)	9 (1.00)	271522 (1.00)	323963 (2.14)	15 (1.00)	7768
<i>prrf1</i>	393020 (1.03)	24351 (31.10)	9 (1.00)	265310 (1.02)	23039 (30.04)	15 (1.00)	7558
<i>prrfz</i>	371058 (1.06)	51435 (14.72)	9 (1.00)	252415 (1.05)	38963 (17.76)	15 (1.00)	7148
PRRF	371058 (1.00)	73237 (10.34)	9 (1.00)	252415 (1.00)	59838 (11.57)	15 (1.00)	7148
<i>rtghi</i>	370531 (1.00)	2440 (310.36)	9 (1.00)	252064 (1.00)	2504 (276.38)	15 (1.00)	7139
<i>etghi</i>	363266 (1.02)	18315 (41.35)	9 (1.00)	246711 (1.02)	17454 (39.65)	15 (1.00)	7008
<i>tgdedx1</i>	283173 (1.28)	135234 (5.60)	9 (1.00)	177416 (1.39)	126083 (5.49)	15 (1.00)	5396
<i>tgdedx2</i>	257366 (1.10)	63266 (11.97)	9 (1.00)	159915 (1.11)	58191 (11.89)	15 (1.00)	4902
tgdedx	257366 (1.00)	209024 (3.62)	9 (1.00)	159915 (1.00)	194649 (3.56)	15 (1.00)	4902
<i>tglike1</i>	234179 (1.10)	107642 (7.04)	9 (1.00)	143219 (1.12)	103324 (6.70)	15 (1.00)	4441
<i>tglike2</i>	221138 (1.06)	97149 (7.80)	9 (1.00)	135574 (1.06)	91103 (7.60)	15 (1.00)	4196
TGLIKE	221138 (1.00)	146044 (5.19)	9 (1.00)	135574 (1.00)	138382 (5.00)	15 (1.00)	4196
<i>tgdb4</i>	204618 (1.08)	60401 (12.54)	9 (1.00)	122534 (1.11)	58545 (11.82)	15 (1.00)	3860
<i>tgdb4tip</i>	153054 (1.34)	206299 (3.67)	9 (1.00)	106648 (1.15)	146471 (4.72)	15 (1.00)	3008
<i>tgdvxtip</i>	131607 (1.16)	124124 (6.10)	9 (1.00)	98924 (1.08)	69430 (9.97)	15 (1.00)	2647
<i>tgdvxpi</i>	122502 (1.07)	86023 (8.80)	9 (1.00)	93036 (1.06)	72433 (9.55)	15 (1.00)	2480
TGB4	122502 (1.00)	311662 (2.43)	9 (1.00)	93036 (1.00)	222180 (3.11)	15 (1.00)	2480
<i>pigap</i>	115844 (1.06)	68054 (11.13)	9 (1.00)	88390 (1.05)	66693 (10.38)	15 (1.00)	2354
KIN	115844 (1.00)	641435 (1.18)	9 (1.00)	88390 (1.00)	603679 (1.15)	15 (1.00)	2354
<i>tgpv</i>	84684 (1.37)	227378 (3.33)	9 (1.00)	52567 (1.68)	263082 (2.63)	15 (1.00)	1583
<i>bwtrs</i>	75092 (1.13)	176033 (4.30)	10 (1.11)	48055 (1.09)	164091 (4.22)	16 (1.07)	1413
<i>b4trs</i>	68322 (1.10)	169185 (4.48)	9 (1.00)	44082 (1.09)	161573 (4.28)	16 (1.07)	1288
<i>b4ccd</i>	67855 (1.01)	9098 (83.24)	9 (1.00)	43546 (1.01)	11199 (61.80)	15 (1.00)	1278
<i>tgqualt</i>	62278 (1.09)	54119 (13.99)	9 (1.00)	39121 (1.11)	52835 (13.10)	15 (1.00)	1153
<i>timcon</i>	61878 (1.01)	8896 (85.13)	9 (1.00)	38656 (1.01)	9923 (69.74)	15 (1.00)	1144
<i>epitg</i>	61808 (1.00)	19581 (38.67)	9 (1.00)	38571 (1.00)	24503 (28.24)	15 (1.00)	1143
<i>tger</i>	61783 (1.00)	20590 (36.78)	9 (1.00)	38552 (1.00)	20173 (34.31)	15 (1.00)	1142
<i>targf</i>	59072 (1.05)	104400 (7.25)	9 (1.00)	36377 (1.06)	113785 (6.08)	15 (1.00)	1089
<i>ticcon</i>	59071 (1.00)	116 (6528.27)	9 (1.00)	36377 (1.00)	194 (3567.37)	15 (1.00)	1089

Cuts	gaptgz seq	gaptgz single	gaptgz allbut	p2d2 seq	p2d2 single	p2d2 allbut	2bmrej
<i>dtgttp</i>	59071 (1.00)	650 (1165.04)	9 (1.00)	36377 (1.00)	463 (1494.75)	15 (1.00)	108963 (1)
<i>rtdif</i>	58141 (1.02)	17804 (42.53)	9 (1.00)	35839 (1.02)	9415 (73.51)	15 (1.00)	107260 (1)
<i>epimaxk</i>	57026 (1.02)	46636 (16.24)	9 (1.00)	35086 (1.02)	48396 (14.30)	15 (1.00)	105242 (1)
<i>drp</i>	56635 (1.01)	13517 (56.02)	9 (1.00)	34820 (1.01)	11934 (57.99)	15 (1.00)	104418 (1)
<i>phivtx1</i>	47992 (1.18)	167293 (4.53)	11 (1.22)	29334 (1.19)	159666 (4.33)	17 (1.13)	88306 (1)
<i>eiccon</i>	46914 (1.02)	31957 (23.70)	9 (1.00)	28695 (1.02)	31784 (21.77)	15 (1.00)	86394 (1)
<i>opsveto</i>	39297 (1.19)	232119 (3.26)	11 (1.22)	24598 (1.17)	228486 (3.03)	15 (1.00)	72401 (1)
<i>kic</i>	34541 (1.14)	152601 (4.96)	9 (1.00)	23219 (1.06)	115553 (5.99)	15 (1.00)	64866 (1)
<i>tggeo</i>	28757 (1.20)	316650 (2.39)	10 (1.11)	18871 (1.23)	284374 (2.43)	21 (1.40)	53330 (1)
<i>tdedge</i>	27869 (1.03)	107373 (7.05)	10 (1.11)	18532 (1.02)	69100 (10.02)	15 (1.00)	51875 (1)
<i>tgzfool</i> 787	23118 (1.21)	191717 (3.95)	10 (1.11)	16081 (1.15)	192639 (3.59)	15 (1.00)	43495 (1)
<i>upvtrs</i>	20829 (1.11)	60254 (12.57)	10 (1.11)	15629 (1.03)	22440 (30.84)	17 (1.13)	40175 (1)
<i>rvtrs</i>	20756 (1.00)	15383 (49.23)	9 (1.00)	15577 (1.00)	13491 (51.30)	15 (1.00)	40038 (1)
<i>tgtcon</i>	18266 (1.14)	60212 (12.58)	9 (1.00)	12116 (1.29)	59148 (11.70)	15 (1.00)	33991 (1)
<i>b4etcon</i>	17890 (1.02)	23424 (32.33)	10 (1.11)	11978 (1.01)	18567 (37.27)	15 (1.00)	33388 (1)
<i>b4ekz</i>	6989 (2.56)	517417 (1.46)	9 (1.00)	8235 (1.45)	398099 (1.74)	15 (1.00)	15732 (2)
<i>b4ekzic</i>	6989 (1.00)	78027 (9.71)	9 (1.00)	8235 (1.00)	66520 (10.40)	15 (1.00)	15732 (1)
<i>b4tim</i>	4671 (1.50)	391850 (1.93)	9 (1.00)	6560 (1.26)	257014 (2.69)	15 (1.00)	11263 (1)
<i>tgktim</i>	4671 (1.00)	0 (757279.00)	9 (1.00)	6560 (1.00)	0 (692069.00)	15 (1.00)	11263 (1)
<i>tgenr</i>	4627 (1.01)	92036 (8.23)	9 (1.00)	6476 (1.01)	88255 (7.84)	16 (1.07)	11133 (1)
<i>chi567</i>	2940 (1.57)	507318 (1.49)	13 (1.44)	4120 (1.57)	468327 (1.48)	19 (1.27)	7078 (1)
<i>npitg</i>	2940 (1.00)	54119 (13.99)	9 (1.00)	4120 (1.00)	52835 (13.10)	15 (1.00)	7078 (1)
<i>verrng</i>	2514 (1.17)	319156 (2.37)	10 (1.11)	3545 (1.16)	295630 (2.34)	15 (1.00)	6071 (1)
<i>chi5max</i>	2514 (1.00)	3202 (236.50)	9 (1.00)	3545 (1.00)	4129 (167.61)	15 (1.00)	6071 (1)
<i>angli</i>	2508 (1.00)	53142 (14.25)	9 (1.00)	3538 (1.00)	51337 (13.48)	15 (1.00)	6058 (1)
<i>ALLKfit</i>	2075 (1.21)	288984 (2.62)	9 (1.00)	3032 (1.17)	195616 (3.54)	17 (1.13)	5112 (1)
<i>tpics</i>	1885 (1.10)	96937 (7.81)	9 (1.00)	2774 (1.09)	93388 (7.41)	15 (1.00)	4663 (1)
<i>epionk</i>	1855 (1.02)	21759 (34.80)	9 (1.00)	2711 (1.02)	29325 (23.60)	15 (1.00)	4570 (1)
<i>ccdpul</i>	246 (7.54)	537948 (1.41)	78 (8.67)	335 (8.09)	473954 (1.46)	148 (9.87)	581 (7)
<i>timkf</i>	174 (1.41)	549157 (1.38)	22 (2.44)	265 (1.26)	431325 (1.60)	32 (2.13)	439 (1)
<i>DELC(0.)</i>	44 (3.95)	217485 (3.48)	130 (14.44)	67 (3.96)	284279 (2.43)	204 (13.60)	111 (3)
<i>cpitrs</i>	44 (1.00)	315320 (2.40)	9 (1.00)	67 (1.00)	15592 (44.39)	15 (1.00)	111 (1)
<i>cpitail</i>	44 (1.00)	56049 (13.51)	9 (1.00)	67 (1.00)	1662 (416.41)	15 (1.00)	111 (1)
<i>b4dedx</i>	44 (1.00)	210864 (3.59)	9 (1.00)	65 (1.03)	48858 (14.16)	15 (1.00)	109 (1)
<i>PV · TD</i>	40 (1.10)	130238 (5.81)	9 (1.00)	60 (1.08)	45057 (15.36)	16 (1.07)	100 (1)
<i>cktrs</i>	15 (2.67)	265254 (2.85)	15 (1.67)	21 (2.86)	390590 (1.77)	30 (2.00)	36 (2)
<i>cktail</i>	9 (1.67)	169366 (4.47)	15 (1.67)	15 (1.40)	211277 (3.28)	21 (1.40)	24 (1)
Total Rej.		4.44			4.00		

Table 12: 1-Beam Normalization. Branch no. 4

Cuts	gaptgz seq	gaptgz single	gaptgz allbut	p2d2 seq	p2d2 single	p2d2 allbut	2b
BOX	757279 (0.00)	0 (757279.00)	0 (0.00)	692069 (0.00)	0 (692069.00)	0 (0.00)	15782
<i>rsdedxmax</i>	757279 (1.00)	0 (757279.00)	0 (0.00)	692069 (1.00)	0 (692069.00)	0 (0.00)	15782
<i>rsdedxcl</i>	757279 (1.00)	0 (757279.00)	0 (0.00)	692069 (1.00)	0 (692069.00)	0 (0.00)	15782
<i>rslike</i>	757279 (1.00)	0 (757279.00)	0 (0.00)	692069 (1.00)	0 (692069.00)	0 (0.00)	15782
<i>rngmom</i>	535731 (1.41)	221548 (3.42)	0 (0.00)	368106 (1.88)	323963 (2.14)	0 (0.00)	10271
BOX	535731 (1.00)	0 (757279.00)	0 (0.00)	368106 (1.00)	0 (692069.00)	0 (0.00)	10271
<i>icodel14</i>	535731 (1.00)	4 (189320.00)	0 (0.00)	368106 (1.00)	3 (230690.00)	0 (0.00)	10271
<i>cos3d</i>	487647 (1.10)	57772 (13.11)	0 (0.00)	329841 (1.12)	51195 (13.52)	0 (0.00)	9364
<i>layv4</i>	487647 (1.00)	0 (757279.00)	0 (0.00)	329841 (1.00)	0 (692069.00)	0 (0.00)	9364
<i>zfrf</i>	487326 (1.00)	824 (919.03)	0 (0.00)	329626 (1.00)	871 (794.57)	0 (0.00)	9352
<i>zutout</i>	487027 (1.00)	589 (1285.70)	0 (0.00)	329427 (1.00)	494 (1400.95)	0 (0.00)	9347
FIDUCIAL	487027 (1.00)	58856 (12.87)	0 (0.00)	329427 (1.00)	52266 (13.24)	0 (0.00)	9347
<i>utcqual</i>	404095 (1.21)	152609 (4.96)	0 (0.00)	271522 (1.21)	140324 (4.93)	0 (0.00)	7768
<i>rsdedxcl</i>	404095 (1.00)	0 (757279.00)	0 (0.00)	271522 (1.00)	0 (692069.00)	0 (0.00)	7768
<i>rsdedxmax</i>	404095 (1.00)	0 (757279.00)	0 (0.00)	271522 (1.00)	0 (692069.00)	0 (0.00)	7768
<i>rslike</i>	404095 (1.00)	0 (757279.00)	0 (0.00)	271522 (1.00)	0 (692069.00)	0 (0.00)	7768
<i>tgktim</i>	404095 (1.00)	0 (757279.00)	0 (0.00)	271522 (1.00)	0 (692069.00)	0 (0.00)	7768
<i>rngmom</i>	404095 (1.00)	221548 (3.42)	0 (0.00)	271522 (1.00)	323963 (2.14)	0 (0.00)	7768
<i>prrf1</i>	393020 (1.03)	24351 (31.10)	0 (0.00)	265310 (1.02)	23039 (30.04)	0 (0.00)	7558
<i>prrfz</i>	371058 (1.06)	51435 (14.72)	0 (0.00)	252415 (1.05)	38963 (17.76)	0 (0.00)	7148
PRRF	371058 (1.00)	73237 (10.34)	0 (0.00)	252415 (1.00)	59838 (11.57)	0 (0.00)	7148
<i>rtghi</i>	370531 (1.00)	2440 (310.36)	0 (0.00)	252064 (1.00)	2504 (276.38)	0 (0.00)	7139
<i>etghi</i>	363266 (1.02)	18315 (41.35)	0 (0.00)	246711 (1.02)	17454 (39.65)	0 (0.00)	7008
<i>tgdedx1</i>	283173 (1.28)	135234 (5.60)	0 (0.00)	177416 (1.39)	126083 (5.49)	0 (0.00)	5396
<i>tgdedx2</i>	257366 (1.10)	63266 (11.97)	0 (0.00)	159915 (1.11)	58191 (11.89)	0 (0.00)	4902
tgdedx	257366 (1.00)	209024 (3.62)	0 (0.00)	159915 (1.00)	194649 (3.56)	0 (0.00)	4902
<i>tglike1</i>	234179 (1.10)	107642 (7.04)	0 (0.00)	143219 (1.12)	103324 (6.70)	0 (0.00)	4441
<i>tglike2</i>	221138 (1.06)	97149 (7.80)	0 (0.00)	135574 (1.06)	91103 (7.60)	0 (0.00)	4196
TGLIKE	221138 (1.00)	146044 (5.19)	0 (0.00)	135574 (1.00)	138382 (5.00)	0 (0.00)	4196
<i>tgdb4</i>	204618 (1.08)	60401 (12.54)	0 (0.00)	122534 (1.11)	58545 (11.82)	0 (0.00)	3860
<i>tgdb4tip</i>	153054 (1.34)	206299 (3.67)	0 (0.00)	106648 (1.15)	146471 (4.72)	0 (0.00)	3008
<i>tgdvxtip</i>	131607 (1.16)	124124 (6.10)	0 (0.00)	98924 (1.08)	69430 (9.97)	0 (0.00)	2647
<i>tgdvxpi</i>	122502 (1.07)	86023 (8.80)	0 (0.00)	93036 (1.06)	72433 (9.55)	0 (0.00)	2480
TGB4	122502 (1.00)	311662 (2.43)	0 (0.00)	93036 (1.00)	222180 (3.11)	0 (0.00)	2480
<i>pigap</i>	115844 (1.06)	68054 (11.13)	0 (0.00)	88390 (1.05)	66693 (10.38)	0 (0.00)	2354
KIN	115844 (1.00)	641435 (1.18)	0 (0.00)	88390 (1.00)	603679 (1.15)	0 (0.00)	2354
<i>tgpv</i>	84684 (1.37)	227378 (3.33)	0 (0.00)	52567 (1.68)	263082 (2.63)	0 (0.00)	1583
<i>bwtrs</i>	75092 (1.13)	176033 (4.30)	0 (0.00)	48055 (1.09)	164091 (4.22)	0 (0.00)	1413
<i>b4trs</i>	68322 (1.10)	169185 (4.48)	0 (0.00)	44082 (1.09)	161573 (4.28)	0 (0.00)	1288
<i>b4ccd</i>	67855 (1.01)	9098 (83.24)	0 (0.00)	43546 (1.01)	11199 (61.80)	0 (0.00)	1278
<i>tgqualt</i>	62278 (1.09)	54119 (13.99)	0 (0.00)	39121 (1.11)	52835 (13.10)	0 (0.00)	1153
<i>timcon</i>	61878 (1.01)	8896 (85.13)	0 (0.00)	38656 (1.01)	9923 (69.74)	0 (0.00)	1144
<i>epitg</i>	61808 (1.00)	19581 (38.67)	0 (0.00)	38571 (1.00)	24503 (28.24)	0 (0.00)	1143
<i>tger</i>	61783 (1.00)	20590 (36.78)	0 (0.00)	38552 (1.00)	20173 (34.31)	0 (0.00)	1142
<i>targf</i>	59072 (1.05)	104400 (7.25)	0 (0.00)	36377 (1.06)	113785 (6.08)	0 (0.00)	1089
<i>ticcon</i>	59071 (1.00)	116 (6528.27)	0 (0.00)	36377 (1.00)	194 (3567.37)	0 (0.00)	1089

Cuts	gaptgz seq	gaptgz single	gaptgz allbut	p2d2 seq	p2d2 single	p2d2 allbut	2bm
<i>dtgttp</i>	59071 (1.00)	650 (1165.04)	0 (0.00)	36377 (1.00)	463 (1494.75)	0 (0.00)	108963
<i>rtdif</i>	58141 (1.02)	17804 (42.53)	0 (0.00)	35839 (1.02)	9415 (73.51)	0 (0.00)	107260
<i>epimaxk</i>	57026 (1.02)	46636 (16.24)	0 (0.00)	35086 (1.02)	48396 (14.30)	0 (0.00)	105242
<i>drp</i>	56635 (1.01)	13517 (56.02)	0 (0.00)	34820 (1.01)	11934 (57.99)	0 (0.00)	104418
<i>phivtx1</i>	47992 (1.18)	167293 (4.53)	0 (0.00)	29334 (1.19)	159666 (4.33)	0 (0.00)	88306
<i>eiccon</i>	46914 (1.02)	31957 (23.70)	0 (0.00)	28695 (1.02)	31784 (21.77)	0 (0.00)	86394
<i>opsveto</i>	39297 (1.19)	232119 (3.26)	0 (0.00)	24598 (1.17)	228486 (3.03)	0 (0.00)	72401
<i>kic</i>	34541 (1.14)	152601 (4.96)	0 (0.00)	23219 (1.06)	115553 (5.99)	0 (0.00)	64866
<i>tgeo</i>	28757 (1.20)	316650 (2.39)	1 (1.00)	18871 (1.23)	284374 (2.43)	0 (0.00)	53330
<i>tdedge</i>	27869 (1.03)	107373 (7.05)	0 (0.00)	18532 (1.02)	69100 (10.02)	0 (0.00)	51875
<i>tgzfool</i> 787	23118 (1.21)	191717 (3.95)	0 (0.00)	16081 (1.15)	192639 (3.59)	0 (0.00)	43495
<i>upvtrs</i>	20829 (1.11)	60254 (12.57)	0 (0.00)	15629 (1.03)	22440 (30.84)	0 (0.00)	40175
<i>rvtrs</i>	20756 (1.00)	15383 (49.23)	0 (0.00)	15577 (1.00)	13491 (51.30)	0 (0.00)	40038
<i>tgtcon</i>	18266 (1.14)	60212 (12.58)	0 (0.00)	12116 (1.29)	59148 (11.70)	0 (0.00)	33991
<i>b4etcon</i>	17890 (1.02)	23424 (32.33)	0 (0.00)	11978 (1.01)	18567 (37.27)	0 (0.00)	33388
<i>b4ekz</i>	6989 (2.56)	517417 (1.46)	0 (0.00)	8235 (1.45)	398099 (1.74)	0 (0.00)	15732
<i>b4ekzic</i>	6989 (1.00)	78027 (9.71)	0 (0.00)	8235 (1.00)	66520 (10.40)	0 (0.00)	15732
<i>b4tim</i>	4671 (1.50)	391850 (1.93)	1 (1.00)	6560 (1.26)	257014 (2.69)	0 (0.00)	11263
<i>tgktim</i>	4671 (1.00)	0 (757279.00)	0 (0.00)	6560 (1.00)	0 (692069.00)	0 (0.00)	11263
<i>tgenr</i>	4627 (1.01)	92036 (8.23)	0 (0.00)	6476 (1.01)	88255 (7.84)	0 (0.00)	11133
<i>chi567</i>	2940 (1.57)	507318 (1.49)	0 (0.00)	4120 (1.57)	468327 (1.48)	0 (0.00)	7078
<i>npitg</i>	2940 (1.00)	54119 (13.99)	0 (0.00)	4120 (1.00)	52835 (13.10)	0 (0.00)	7078
<i>verrng</i>	2514 (1.17)	319156 (2.37)	0 (0.00)	3545 (1.16)	295630 (2.34)	0 (0.00)	6071
<i>chi5max</i>	2514 (1.00)	3202 (236.50)	0 (0.00)	3545 (1.00)	4129 (167.61)	0 (0.00)	6071
<i>angli</i>	2508 (1.00)	53142 (14.25)	0 (0.00)	3538 (1.00)	51337 (13.48)	0 (0.00)	6058
<i>ALLKfit</i>	2075 (1.21)	288984 (2.62)	0 (0.00)	3032 (1.17)	195616 (3.54)	0 (0.00)	5112
<i>tpics</i>	1885 (1.10)	96937 (7.81)	0 (0.00)	2774 (1.09)	93388 (7.41)	0 (0.00)	4663
<i>epionk</i>	1855 (1.02)	21759 (34.80)	0 (0.00)	2711 (1.02)	29325 (23.60)	0 (0.00)	4570
<i>ccdpul</i>	246 (7.54)	537948 (1.41)	1 (1.00)	335 (8.09)	473954 (1.46)	0 (0.00)	581
<i>timkf</i>	174 (1.41)	549157 (1.38)	4 (4.00)	265 (1.26)	431325 (1.60)	0 (0.00)	439
<i>DELC(0.)</i>	44 (3.95)	217485 (3.48)	0 (0.00)	67 (3.96)	284279 (2.43)	0 (0.00)	111
<i>cktrs</i>	15 (2.93)	265254 (2.85)	0 (0.00)	22 (3.05)	390590 (1.77)	0 (0.00)	37
<i>cktai</i>	9 (1.67)	169366 (4.47)	0 (0.00)	16 (1.38)	211277 (3.28)	0 (0.00)	25
<i>pv(not tg)</i>	0 (9.00)	324695 (2.33)	0 (0.00)	1 (16.00)	343208 (2.02)	0 (0.00)	1 (
<i>piflg</i>	0 (0.00)	25722 (29.44)	0 (0.00)	1 (1.00)	38711 (17.88)	0 (0.00)	1
<i>ev502</i>	0 (0.00)	216199 (3.50)	0 (0.00)	1 (1.00)	206251 (3.36)	0 (0.00)	1
<i>elveto</i>	0 (0.00)	183187 (4.13)	0 (0.00)	1 (1.00)	232742 (2.97)	0 (0.00)	1
<i>tdfool</i>	0 (0.00)	133123 (5.69)	0 (0.00)	1 (1.00)	184629 (3.75)	0 (0.00)	1
<i>tdvarnn02</i>	0 (0.00)	281062 (2.69)	0 (0.00)	1 (1.00)	333030 (2.08)	0 (0.00)	1
TD	0 (0.00)	429657 (1.76)	0 (0.00)	1 (1.00)	450809 (1.54)	0 (0.00)	1
<i>cpitrs · cpitail</i>	0 (0.00)	441248 (1.72)	0 (0.00)	0 (1.00)	676155 (1.02)	1 (1.00)	0
<i>b4dedx</i>	0 (0.00)	210864 (3.59)	0 (0.00)	0 (0.00)	48858 (14.16)	0 (0.00)	0
Total Rej.		0.00			0.00		

Table 13: 1-Beam Normalization. Branch no. 5

Cuts	gaptgz seq	gaptgz single	gaptgz allbut	p2d2 seq	p2d2 single	p2d2 allbut	2b
<i>BOX</i>	757279 (0.00)	0 (757279.00)	0 (0.00)	692069 (0.00)	0 (692069.00)	0 (0.00)	15782
<i>rsdedxmax</i>	757279 (1.00)	0 (757279.00)	0 (0.00)	692069 (1.00)	0 (692069.00)	0 (0.00)	15782
<i>rsdedxcl</i>	757279 (1.00)	0 (757279.00)	0 (0.00)	692069 (1.00)	0 (692069.00)	0 (0.00)	15782
<i>rslike</i>	757279 (1.00)	0 (757279.00)	0 (0.00)	692069 (1.00)	0 (692069.00)	0 (0.00)	15782
<i>rngmom</i>	535731 (1.41)	221548 (3.42)	0 (0.00)	368106 (1.88)	323963 (2.14)	0 (0.00)	10271
<i>BOX</i>	535731 (1.00)	0 (757279.00)	0 (0.00)	368106 (1.00)	0 (692069.00)	0 (0.00)	10271
<i>icodel14</i>	535731 (1.00)	4 (189320.00)	0 (0.00)	368106 (1.00)	3 (230690.00)	0 (0.00)	10271
<i>cos3d</i>	487647 (1.10)	57772 (13.11)	0 (0.00)	329841 (1.12)	51195 (13.52)	0 (0.00)	9364
<i>layv4</i>	487647 (1.00)	0 (757279.00)	0 (0.00)	329841 (1.00)	0 (692069.00)	0 (0.00)	9364
<i>zfrf</i>	487326 (1.00)	824 (919.03)	0 (0.00)	329626 (1.00)	871 (794.57)	0 (0.00)	9352
<i>zutout</i>	487027 (1.00)	589 (1285.70)	0 (0.00)	329427 (1.00)	494 (1400.95)	0 (0.00)	9347
FIDUCIAL	487027 (1.00)	58856 (12.87)	0 (0.00)	329427 (1.00)	52266 (13.24)	0 (0.00)	9347
<i>utcqual</i>	404095 (1.21)	152609 (4.96)	0 (0.00)	271522 (1.21)	140324 (4.93)	0 (0.00)	7768
<i>rsdedxcl</i>	404095 (1.00)	0 (757279.00)	0 (0.00)	271522 (1.00)	0 (692069.00)	0 (0.00)	7768
<i>rsdedxmax</i>	404095 (1.00)	0 (757279.00)	0 (0.00)	271522 (1.00)	0 (692069.00)	0 (0.00)	7768
<i>rslike</i>	404095 (1.00)	0 (757279.00)	0 (0.00)	271522 (1.00)	0 (692069.00)	0 (0.00)	7768
<i>tgktim</i>	404095 (1.00)	0 (757279.00)	0 (0.00)	271522 (1.00)	0 (692069.00)	0 (0.00)	7768
<i>rngmom</i>	404095 (1.00)	221548 (3.42)	0 (0.00)	271522 (1.00)	323963 (2.14)	0 (0.00)	7768
<i>prrf1</i>	393020 (1.03)	24351 (31.10)	0 (0.00)	265310 (1.02)	23039 (30.04)	0 (0.00)	7558
<i>prrfz</i>	371058 (1.06)	51435 (14.72)	0 (0.00)	252415 (1.05)	38963 (17.76)	0 (0.00)	7148
PRRF	371058 (1.00)	73237 (10.34)	0 (0.00)	252415 (1.00)	59838 (11.57)	0 (0.00)	7148
<i>rtghi</i>	370531 (1.00)	2440 (310.36)	0 (0.00)	252064 (1.00)	2504 (276.38)	0 (0.00)	7139
<i>etghi</i>	363266 (1.02)	18315 (41.35)	0 (0.00)	246711 (1.02)	17454 (39.65)	0 (0.00)	7008
<i>tgdedx1</i>	283173 (1.28)	135234 (5.60)	0 (0.00)	177416 (1.39)	126083 (5.49)	0 (0.00)	5396
<i>tgdedx2</i>	257366 (1.10)	63266 (11.97)	0 (0.00)	159915 (1.11)	58191 (11.89)	0 (0.00)	4902
tgdedx	257366 (1.00)	209024 (3.62)	0 (0.00)	159915 (1.00)	194649 (3.56)	0 (0.00)	4902
<i>tglike1</i>	234179 (1.10)	107642 (7.04)	0 (0.00)	143219 (1.12)	103324 (6.70)	0 (0.00)	4441
<i>tglike2</i>	221138 (1.06)	97149 (7.80)	0 (0.00)	135574 (1.06)	91103 (7.60)	0 (0.00)	4196
TGLIKE	221138 (1.00)	146044 (5.19)	0 (0.00)	135574 (1.00)	138382 (5.00)	0 (0.00)	4196
<i>tgdb4</i>	204618 (1.08)	60401 (12.54)	0 (0.00)	122534 (1.11)	58545 (11.82)	0 (0.00)	3860
<i>tgdb4tip</i>	153054 (1.34)	206299 (3.67)	0 (0.00)	106648 (1.15)	146471 (4.72)	0 (0.00)	3008
<i>tgdvxtip</i>	131607 (1.16)	124124 (6.10)	0 (0.00)	98924 (1.08)	69430 (9.97)	0 (0.00)	2647
<i>tgdvxpi</i>	122502 (1.07)	86023 (8.80)	0 (0.00)	93036 (1.06)	72433 (9.55)	0 (0.00)	2480
TGB4	122502 (1.00)	311662 (2.43)	0 (0.00)	93036 (1.00)	222180 (3.11)	0 (0.00)	2480
<i>pigap</i>	115844 (1.06)	68054 (11.13)	0 (0.00)	88390 (1.05)	66693 (10.38)	0 (0.00)	2354
KIN	115844 (1.00)	641435 (1.18)	0 (0.00)	88390 (1.00)	603679 (1.15)	0 (0.00)	2354
<i>tgpv</i>	84684 (1.37)	227378 (3.33)	0 (0.00)	52567 (1.68)	263082 (2.63)	0 (0.00)	1583
<i>bwtrs</i>	75092 (1.13)	176033 (4.30)	0 (0.00)	48055 (1.09)	164091 (4.22)	0 (0.00)	1413
<i>b4trs</i>	68322 (1.10)	169185 (4.48)	0 (0.00)	44082 (1.09)	161573 (4.28)	0 (0.00)	1288
<i>b4ccd</i>	67855 (1.01)	9098 (83.24)	0 (0.00)	43546 (1.01)	11199 (61.80)	0 (0.00)	1278
<i>tgqualt</i>	62278 (1.09)	54119 (13.99)	0 (0.00)	39121 (1.11)	52835 (13.10)	0 (0.00)	1153
<i>timcon</i>	61878 (1.01)	8896 (85.13)	0 (0.00)	38656 (1.01)	9923 (69.74)	0 (0.00)	1144
<i>epitg</i>	61808 (1.00)	19581 (38.67)	0 (0.00)	38571 (1.00)	24503 (28.24)	0 (0.00)	1143
<i>tger</i>	61783 (1.00)	20590 (36.78)	0 (0.00)	38552 (1.00)	20173 (34.31)	0 (0.00)	1142
<i>targf</i>	59072 (1.05)	104400 (7.25)	0 (0.00)	36377 (1.06)	113785 (6.08)	0 (0.00)	1089
<i>ticcon</i>	59071 (1.00)	116 (6528.27)	0 (0.00)	36377 (1.00)	194 (3567.37)	0 (0.00)	1089

Cuts	gaptgz seq	gaptgz single	gaptgz allbut	p2d2 seq	p2d2 single	p2d2 allbut	2bmrej
<i>dtgttp</i>	59071 (1.00)	650 (1165.04)	0 (0.00)	36377 (1.00)	463 (1494.75)	0 (0.00)	108963 (1)
<i>rtdif</i>	58141 (1.02)	17804 (42.53)	0 (0.00)	35839 (1.02)	9415 (73.51)	0 (0.00)	107260 (1)
<i>epimaxk</i>	57026 (1.02)	46636 (16.24)	0 (0.00)	35086 (1.02)	48396 (14.30)	0 (0.00)	105242 (1)
<i>drp</i>	56635 (1.01)	13517 (56.02)	0 (0.00)	34820 (1.01)	11934 (57.99)	0 (0.00)	104418 (1)
<i>phivtx1</i>	47992 (1.18)	167293 (4.53)	0 (0.00)	29334 (1.19)	159666 (4.33)	0 (0.00)	88306 (1)
<i>eiccon</i>	46914 (1.02)	31957 (23.70)	0 (0.00)	28695 (1.02)	31784 (21.77)	0 (0.00)	86394 (1)
<i>opsveto</i>	39297 (1.19)	232119 (3.26)	0 (0.00)	24598 (1.17)	228486 (3.03)	0 (0.00)	72401 (1)
<i>kic</i>	34541 (1.14)	152601 (4.96)	0 (0.00)	23219 (1.06)	115553 (5.99)	0 (0.00)	64866 (1)
<i>tgeo</i>	28757 (1.20)	316650 (2.39)	0 (0.00)	18871 (1.23)	284374 (2.43)	0 (0.00)	53330 (1)
<i>tdedge</i>	27869 (1.03)	107373 (7.05)	0 (0.00)	18532 (1.02)	69100 (10.02)	0 (0.00)	51875 (1)
<i>tgzfool</i> 787	23118 (1.21)	191717 (3.95)	0 (0.00)	16081 (1.15)	192639 (3.59)	0 (0.00)	43495 (1)
<i>upvtrs</i>	20829 (1.11)	60254 (12.57)	0 (0.00)	15629 (1.03)	22440 (30.84)	0 (0.00)	40175 (1)
<i>rvtrs</i>	20756 (1.00)	15383 (49.23)	0 (0.00)	15577 (1.00)	13491 (51.30)	0 (0.00)	40038 (1)
<i>tgtcon</i>	18266 (1.14)	60212 (12.58)	0 (0.00)	12116 (1.29)	59148 (11.70)	0 (0.00)	33991 (1)
<i>b4etcon</i>	17890 (1.02)	23424 (32.33)	0 (0.00)	11978 (1.01)	18567 (37.27)	0 (0.00)	33388 (1)
<i>b4ekz</i>	6989 (2.56)	517417 (1.46)	0 (0.00)	8235 (1.45)	398099 (1.74)	0 (0.00)	15732 (2)
<i>b4ekzic</i>	6989 (1.00)	78027 (9.71)	0 (0.00)	8235 (1.00)	66520 (10.40)	0 (0.00)	15732 (1)
<i>b4tim</i>	4671 (1.50)	391850 (1.93)	0 (0.00)	6560 (1.26)	257014 (2.69)	0 (0.00)	11263 (1)
<i>tgktim</i>	4671 (1.00)	0 (757279.00)	0 (0.00)	6560 (1.00)	0 (692069.00)	0 (0.00)	11263 (1)
<i>tgenr</i>	4627 (1.01)	92036 (8.23)	0 (0.00)	6476 (1.01)	88255 (7.84)	0 (0.00)	11133 (1)
<i>chi567</i>	2940 (1.57)	507318 (1.49)	0 (0.00)	4120 (1.57)	468327 (1.48)	0 (0.00)	7078 (1)
<i>npitg</i>	2940 (1.00)	54119 (13.99)	0 (0.00)	4120 (1.00)	52835 (13.10)	0 (0.00)	7078 (1)
<i>verrng</i>	2514 (1.17)	319156 (2.37)	0 (0.00)	3545 (1.16)	295630 (2.34)	0 (0.00)	6071 (1)
<i>chi5max</i>	2514 (1.00)	3202 (236.50)	0 (0.00)	3545 (1.00)	4129 (167.61)	0 (0.00)	6071 (1)
<i>angli</i>	2508 (1.00)	53142 (14.25)	0 (0.00)	3538 (1.00)	51337 (13.48)	0 (0.00)	6058 (1)
<i>ALLKfit</i>	2075 (1.21)	288984 (2.62)	0 (0.00)	3032 (1.17)	195616 (3.54)	0 (0.00)	5112 (1)
<i>tpics</i>	1885 (1.10)	96937 (7.81)	0 (0.00)	2774 (1.09)	93388 (7.41)	0 (0.00)	4663 (1)
<i>epionk</i>	1855 (1.02)	21759 (34.80)	0 (0.00)	2711 (1.02)	29325 (23.60)	0 (0.00)	4570 (1)
<i>ccdpul</i>	246 (7.54)	537948 (1.41)	0 (0.00)	335 (8.09)	473954 (1.46)	0 (0.00)	581 (7)
<i>timkf</i>	174 (1.41)	549157 (1.38)	0 (0.00)	265 (1.26)	431325 (1.60)	0 (0.00)	439 (1)
<i>DELC(0.)</i>	44 (3.95)	217485 (3.48)	0 (0.00)	67 (3.96)	284279 (2.43)	0 (0.00)	111 (3)
<i>cktrs</i>	15 (2.93)	265254 (2.85)	0 (0.00)	22 (3.05)	390590 (1.77)	0 (0.00)	37 (3)
<i>cktai</i>	9 (1.67)	169366 (4.47)	0 (0.00)	16 (1.38)	211277 (3.28)	0 (0.00)	25 (1)
<i>pv(not tg)</i>	0 (9.00)	324695 (2.33)	0 (0.00)	1 (16.00)	343208 (2.02)	0 (0.00)	1 (25)
<i>piflg</i>	0 (0.00)	25722 (29.44)	0 (0.00)	1 (1.00)	38711 (17.88)	0 (0.00)	1 (1)
<i>ev502</i>	0 (0.00)	216199 (3.50)	0 (0.00)	1 (1.00)	206251 (3.36)	0 (0.00)	1 (1)
<i>elveto</i>	0 (0.00)	183187 (4.13)	0 (0.00)	1 (1.00)	232742 (2.97)	0 (0.00)	1 (1)
<i>tdfool</i>	0 (0.00)	133123 (5.69)	0 (0.00)	1 (1.00)	184629 (3.75)	0 (0.00)	1 (1)
<i>tdvarnn02</i>	0 (0.00)	281062 (2.69)	0 (0.00)	1 (1.00)	333030 (2.08)	0 (0.00)	1 (1)
TD	0 (0.00)	429657 (1.76)	0 (0.00)	1 (1.00)	450809 (1.54)	0 (0.00)	1 (1)
<i>b4dedx</i>	0 (0.00)	546415 (1.39)	0 (0.00)	0 (1.00)	643211 (1.08)	1 (1.00)	0 (1)
<i>cpitrs</i>	0 (0.00)	315320 (2.40)	0 (0.00)	0 (0.00)	15592 (44.39)	0 (0.00)	0 (0)
<i>cpitail</i>	0 (0.00)	56049 (13.51)	0 (0.00)	0 (0.00)	1662 (416.41)	0 (0.00)	0 (0)
Total Rej.		0.00			0.00		

Table 14: 2-Beam Rejection. Branch no. 1

Cuts	gaptgz seq	gaptgz single	gaptgz allbut	p2d2 seq	p2d2 single	p2d2 all
<i>BOX</i>	757279 (0.00)	0 (757279.00)	16 (1.00)	692069 (0.00)	0 (692069.00)	20 (20)
<i>rsdedxmax</i>	757279 (1.00)	0 (757279.00)	16 (1.00)	692069 (1.00)	0 (692069.00)	20 (20)
<i>rsdedxcl</i>	757279 (1.00)	0 (757279.00)	16 (1.00)	692069 (1.00)	0 (692069.00)	20 (20)
<i>rslike</i>	757279 (1.00)	0 (757279.00)	16 (1.00)	692069 (1.00)	0 (692069.00)	20 (20)
<i>rngmom</i>	535731 (1.41)	221548 (3.42)	17 (1.06)	368106 (1.88)	323963 (2.14)	20 (20)
<i>pv(not tg)</i>	285245 (1.88)	324695 (2.33)	114 (7.12)	126519 (2.91)	343208 (2.02)	176 (176)
<i>pi_flg</i>	284153 (1.00)	25722 (29.44)	16 (1.00)	125529 (1.01)	38711 (17.88)	20 (20)
<i>ev502</i>	225419 (1.26)	216199 (3.50)	16 (1.00)	104396 (1.20)	206251 (3.36)	20 (20)
<i>elveto</i>	205924 (1.09)	183187 (4.13)	16 (1.00)	95415 (1.09)	232742 (2.97)	20 (20)
<i>tdfool</i>	205426 (1.00)	133123 (5.69)	16 (1.00)	95095 (1.00)	184629 (3.75)	20 (20)
<i>tdvarnn02</i>	168104 (1.22)	281062 (2.69)	16 (1.00)	78279 (1.21)	333030 (2.08)	20 (20)
TD	168104 (1.00)	429657 (1.76)	16 (1.00)	78279 (1.00)	450809 (1.54)	20 (20)
<i>b4dedx</i>	88482 (1.90)	210864 (3.59)	17 (1.06)	65265 (1.20)	48858 (14.16)	21 (21)
<i>tgqualt</i>	80996 (1.09)	54119 (13.99)	16 (1.00)	57989 (1.13)	52835 (13.10)	20 (20)
<i>timcon</i>	80104 (1.01)	8896 (85.13)	16 (1.00)	57296 (1.01)	9923 (69.74)	20 (20)
<i>DELC(0.)</i>	21577 (3.71)	539794 (1.40)	19 (1.19)	15344 (3.73)	407790 (1.70)	24 (24)
<i>tger</i>	20120 (1.07)	20590 (36.78)	16 (1.00)	14362 (1.07)	20173 (34.31)	21 (21)
<i>tgzfool 787</i>	13506 (1.49)	191717 (3.95)	39 (2.44)	9277 (1.55)	192639 (3.59)	92 (92)
<i>upvtrs</i>	12065 (1.12)	60254 (12.57)	16 (1.00)	8942 (1.04)	22440 (30.84)	23 (23)
<i>rvtrs</i>	11930 (1.01)	15383 (49.23)	16 (1.00)	8855 (1.01)	13491 (51.30)	21 (21)
<i>b4etcon</i>	11719 (1.02)	23424 (32.33)	17 (1.06)	8686 (1.02)	18567 (37.27)	24 (24)
<i>b4trs · b4cccd AND kpigap</i>	4169 (2.81)	713534 (1.06)	891 (55.69)	2128 (4.08)	648400 (1.07)	1521 (1521)
<i>cpitrs</i>	873 (4.78)	315320 (2.40)	26 (1.62)	1892 (1.12)	15592 (44.39)	21 (21)
<i>cpitail</i>	870 (1.00)	56049 (13.51)	16 (1.00)	1890 (1.00)	1662 (416.41)	20 (20)
$1.1 < b4ars_atc < 5.0$	613 (1.42)	400923 (1.89)	25 (1.56)	1319 (1.43)	343185 (2.02)	39 (39)
<i>bwttrs</i>	24 (25.54)	176033 (4.30)	28 (1.75)	42 (31.40)	164091 (4.22)	86 (86)
<i>cktrs</i>	17 (1.41)	265254 (2.85)	17 (1.06)	22 (1.91)	390590 (1.77)	30 (30)
<i>cktai</i>	16 (1.06)	169366 (4.47)	17 (1.06)	20 (1.10)	211277 (3.28)	22 (22)
Total Rej.		38.31			65.95	

Table 15: 2-Beam Rejection. Branch no. 2

Cuts	gaptgz seq	gaptgz single	gaptgz allbut	p2d2 seq	p2d2 single	p2d2
<i>BOX</i>	757279 (0.00)	0 (757279.00)	9 (1.00)	692069 (0.00)	0 (692069.00)	19
<i>rsdedxmax</i>	757279 (1.00)	0 (757279.00)	9 (1.00)	692069 (1.00)	0 (692069.00)	19
<i>rsdedxcl</i>	757279 (1.00)	0 (757279.00)	9 (1.00)	692069 (1.00)	0 (692069.00)	19
<i>rslike</i>	757279 (1.00)	0 (757279.00)	9 (1.00)	692069 (1.00)	0 (692069.00)	19
<i>rngmom</i>	535731 (1.41)	221548 (3.42)	10 (1.11)	368106 (1.88)	323963 (2.14)	19
<i>pv(not tg)</i>	285245 (1.88)	324695 (2.33)	94 (10.44)	126519 (2.91)	343208 (2.02)	217
<i>pi_flg</i>	284153 (1.00)	25722 (29.44)	9 (1.00)	125529 (1.01)	38711 (17.88)	19
<i>ev502</i>	225419 (1.26)	216199 (3.50)	9 (1.00)	104396 (1.20)	206251 (3.36)	19
<i>elveto</i>	205924 (1.09)	183187 (4.13)	9 (1.00)	95415 (1.09)	232742 (2.97)	19
<i>tdfool</i>	205426 (1.00)	133123 (5.69)	9 (1.00)	95095 (1.00)	184629 (3.75)	19
<i>tdvarnn02</i>	168104 (1.22)	281062 (2.69)	9 (1.00)	78279 (1.21)	333030 (2.08)	19
TD	168104 (1.00)	429657 (1.76)	9 (1.00)	78279 (1.00)	450809 (1.54)	19
<i>b4dedx</i>	88482 (1.90)	210864 (3.59)	10 (1.11)	65265 (1.20)	48858 (14.16)	23
<i>tgqualt</i>	80996 (1.09)	54119 (13.99)	9 (1.00)	57989 (1.13)	52835 (13.10)	19
<i>timcon</i>	80104 (1.01)	8896 (85.13)	9 (1.00)	57296 (1.01)	9923 (69.74)	19
<i>DELC(0.)</i>	21577 (3.71)	539794 (1.40)	10 (1.11)	15344 (3.73)	407790 (1.70)	25
<i>tger</i>	20120 (1.07)	20590 (36.78)	10 (1.11)	14362 (1.07)	20173 (34.31)	19
<i>tgzfool 787</i>	13506 (1.49)	191717 (3.95)	13 (1.44)	9277 (1.55)	192639 (3.59)	22
<i>upvtrs</i>	12065 (1.12)	60254 (12.57)	10 (1.11)	8942 (1.04)	22440 (30.84)	19
<i>rvtrs</i>	11930 (1.01)	15383 (49.23)	9 (1.00)	8855 (1.01)	13491 (51.30)	20
<i>b4etcon</i>	11719 (1.02)	23424 (32.33)	9 (1.00)	8686 (1.02)	18567 (37.27)	19
<i>b4trs · b4cccd AND kpigap</i>	4169 (2.81)	713534 (1.06)	1434 (159.33)	2128 (4.08)	648400 (1.07)	2606 (
<i>cktrs</i>	3330 (1.25)	265254 (2.85)	11 (1.22)	412 (5.17)	390590 (1.77)	21
<i>cktai</i>	3301 (1.01)	169366 (4.47)	10 (1.11)	380 (1.08)	211277 (3.28)	20
<i>b4ars_atc < 1.1</i>	2193 (1.51)	362345 (2.09)	25 (2.78)	213 (1.78)	354125 (1.95)	39
<i>tgz > -7.0</i>	2193 (1.00)	123140 (6.15)	9 (1.00)	213 (1.00)	123257 (5.61)	19
<i>bwtrs</i>	35 (62.66)	176033 (4.30)	41 (4.56)	21 (10.14)	164091 (4.22)	68
<i>cpitrs</i>	9 (3.89)	315320 (2.40)	27 (3.00)	19 (1.11)	15592 (44.39)	21
<i>cpitai</i>	9 (1.00)	56049 (13.51)	9 (1.00)	19 (1.00)	1662 (416.41)	19
Total Rej.		243.67			11.21	

Table 16: 2-Beam Normalization. Branch no. 1

Cuts	gaptgz seq	gaptgz single	gaptgz allbut	p2d2 seq	p2d2 single	p2d2 allbut
<i>BOX</i>	757279 (0.00)	0 (757279.00)	0 (0.00)	692069 (0.00)	0 (692069.00)	0 (0.00)
<i>rsdedxmax</i>	757279 (1.00)	0 (757279.00)	0 (0.00)	692069 (1.00)	0 (692069.00)	0 (0.00)
<i>rsdedxcl</i>	757279 (1.00)	0 (757279.00)	0 (0.00)	692069 (1.00)	0 (692069.00)	0 (0.00)
<i>rslike</i>	757279 (1.00)	0 (757279.00)	0 (0.00)	692069 (1.00)	0 (692069.00)	0 (0.00)
<i>pv(not tg)</i>	432584 (1.75)	324695 (2.33)	7 (7.00)	348861 (1.98)	343208 (2.02)	11 (11.00)
<i>tgqualt</i>	403812 (1.07)	54119 (13.99)	0 (0.00)	324008 (1.08)	52835 (13.10)	0 (0.00)
<i>timcon</i>	400117 (1.01)	8896 (85.13)	0 (0.00)	320403 (1.01)	9923 (69.74)	0 (0.00)
<i>epitg</i>	392664 (1.02)	19581 (38.67)	0 (0.00)	312664 (1.02)	24503 (28.24)	0 (0.00)
<i>tger</i>	385597 (1.02)	20590 (36.78)	0 (0.00)	306366 (1.02)	20173 (34.31)	0 (0.00)
<i>ticcon</i>	385586 (1.00)	116 (6528.27)	0 (0.00)	306350 (1.00)	194 (3567.37)	0 (0.00)
<i>dtgttp</i>	385533 (1.00)	650 (1165.04)	0 (0.00)	306328 (1.00)	463 (1494.75)	0 (0.00)
<i>rtdif</i>	375374 (1.03)	17804 (42.53)	0 (0.00)	302398 (1.01)	9415 (73.51)	0 (0.00)
<i>drp</i>	368819 (1.02)	13517 (56.02)	0 (0.00)	298122 (1.01)	11934 (57.99)	0 (0.00)
<i>eiccon</i>	359940 (1.02)	31957 (23.70)	0 (0.00)	291430 (1.02)	31784 (21.77)	0 (0.00)
<i>kic</i>	315685 (1.14)	152601 (4.96)	0 (0.00)	255366 (1.14)	115553 (5.99)	0 (0.00)
<i>tggeo</i>	267695 (1.18)	316650 (2.39)	0 (0.00)	219203 (1.16)	284374 (2.43)	0 (0.00)
<i>tgzfool 787</i>	189828 (1.41)	191717 (3.95)	0 (0.00)	140962 (1.56)	192639 (3.59)	0 (0.00)
<i>upvtrs</i>	172223 (1.10)	60254 (12.57)	0 (0.00)	136083 (1.04)	22440 (30.84)	0 (0.00)
<i>rvtrs</i>	171328 (1.01)	15383 (49.23)	0 (0.00)	135439 (1.00)	13491 (51.30)	0 (0.00)
<i>tgtcon</i>	162026 (1.06)	60212 (12.58)	0 (0.00)	129747 (1.04)	59148 (11.70)	0 (0.00)
<i>b4etcon</i>	158042 (1.03)	23424 (32.33)	0 (0.00)	127157 (1.02)	18567 (37.27)	0 (0.00)
<i>b4tim</i>	58365 (2.71)	391850 (1.93)	0 (0.00)	63738 (2.00)	257014 (2.69)	0 (0.00)
<i>tgktim</i>	58365 (1.00)	0 (757279.00)	0 (0.00)	63738 (1.00)	0 (692069.00)	0 (0.00)
<i>tgenr</i>	56855 (1.03)	92036 (8.23)	0 (0.00)	62306 (1.02)	88255 (7.84)	0 (0.00)
<i>chi567</i>	21580 (2.63)	507318 (1.49)	0 (0.00)	24723 (2.52)	468327 (1.48)	1 (1.00)
<i>npitg</i>	21580 (1.00)	54119 (13.99)	0 (0.00)	24723 (1.00)	52835 (13.10)	0 (0.00)
<i>verrng</i>	16434 (1.31)	319156 (2.37)	1 (1.00)	19385 (1.28)	295630 (2.34)	2 (2.00)
<i>chi5max</i>	16434 (1.00)	3202 (236.50)	0 (0.00)	19385 (1.00)	4129 (167.61)	0 (0.00)
<i>angli</i>	16393 (1.00)	53142 (14.25)	0 (0.00)	19327 (1.00)	51337 (13.48)	0 (0.00)
<i>ALLKfit</i>	10761 (1.52)	288984 (2.62)	0 (0.00)	13603 (1.42)	195616 (3.54)	0 (0.00)
<i>tpics</i>	9393 (1.15)	96937 (7.81)	0 (0.00)	11856 (1.15)	93388 (7.41)	0 (0.00)
<i>epionk</i>	9165 (1.02)	21759 (34.80)	0 (0.00)	11541 (1.03)	29325 (23.60)	0 (0.00)
<i>ccdpul</i>	2738 (3.35)	537948 (1.41)	7 (7.00)	3584 (3.22)	473954 (1.46)	5 (5.00)
<i>timkf</i>	1923 (1.42)	549157 (1.38)	0 (0.00)	2470 (1.45)	431325 (1.60)	0 (0.00)
<i>DELC(0.)</i>	580 (3.32)	539794 (1.40)	17 (17.00)	795 (3.11)	407790 (1.70)	17 (17.00)
<i>b4dedx</i>	577 (1.01)	210864 (3.59)	0 (0.00)	789 (1.01)	48858 (14.16)	0 (0.00)
<i>cpitrs</i>	533 (1.08)	315320 (2.40)	0 (0.00)	786 (1.00)	15592 (44.39)	0 (0.00)
<i>cpitail</i>	533 (1.00)	56049 (13.51)	0 (0.00)	786 (1.00)	1662 (416.41)	0 (0.00)
<i>cktrs · cktail · bwtrs</i>	98 (5.44)	380299 (1.99)	5 (5.00)	153 (5.14)	247250 (2.80)	9 (9.00)
<i>BOX</i>	98 (1.00)	0 (757279.00)	0 (0.00)	153 (1.00)	0 (692069.00)	0 (0.00)
<i>icodel14</i>	98 (1.00)	4 (189320.00)	0 (0.00)	153 (1.00)	3 (230690.00)	0 (0.00)
<i>cos3d</i>	95 (1.03)	57772 (13.11)	0 (0.00)	148 (1.03)	51195 (13.52)	0 (0.00)
<i>layv4</i>	95 (1.00)	0 (757279.00)	0 (0.00)	148 (1.00)	0 (692069.00)	0 (0.00)
<i>zfrf</i>	94 (1.01)	824 (919.03)	0 (0.00)	147 (1.01)	871 (794.57)	0 (0.00)
<i>zutout</i>	94 (1.00)	589 (1285.70)	0 (0.00)	147 (1.00)	494 (1400.95)	0 (0.00)
FIDUCIAL	94 (1.00)	58856 (12.87)	0 (0.00)	147 (1.00)	52266 (13.24)	0 (0.00)

Cuts	gaptgz seq	gaptgz single	gaptgz allbut	p2d2 seq	p2d2 single	p2d2 allbut	2bmrej seq
<i>utcqual</i>	75 (1.25)	152609 (4.96)	0 (0.00)	112 (1.31)	140324 (4.93)	0 (0.00)	187 (1.29)
<i>rsdedxcl</i>	75 (1.00)	0 (757279.00)	0 (0.00)	112 (1.00)	0 (692069.00)	0 (0.00)	187 (1.00) 0
<i>rsdedxmax</i>	75 (1.00)	0 (757279.00)	0 (0.00)	112 (1.00)	0 (692069.00)	0 (0.00)	187 (1.00) 0
<i>rslike</i>	75 (1.00)	0 (757279.00)	0 (0.00)	112 (1.00)	0 (692069.00)	0 (0.00)	187 (1.00) 0
<i>tgktim</i>	75 (1.00)	0 (757279.00)	0 (0.00)	112 (1.00)	0 (692069.00)	0 (0.00)	187 (1.00) 0
<i>rngmom</i>	5 (15.00)	221548 (3.42)	0 (0.00)	9 (12.44)	323963 (2.14)	0 (0.00)	14 (13.36)
<i>prrf1</i>	5 (1.00)	24351 (31.10)	0 (0.00)	9 (1.00)	23039 (30.04)	0 (0.00)	14 (1.00)
<i>prrfz</i>	5 (1.00)	51435 (14.72)	0 (0.00)	9 (1.00)	38963 (17.76)	0 (0.00)	14 (1.00)
PRRF	5 (1.00)	73237 (10.34)	0 (0.00)	9 (1.00)	59838 (11.57)	0 (0.00)	14 (1.00) 1
<i>rtghi</i>	5 (1.00)	2440 (310.36)	0 (0.00)	9 (1.00)	2504 (276.38)	0 (0.00)	14 (1.00)
<i>etghi</i>	5 (1.00)	18315 (41.35)	0 (0.00)	9 (1.00)	17454 (39.65)	0 (0.00)	14 (1.00)
<i>tgdedx1</i>	3 (1.67)	135234 (5.60)	0 (0.00)	3 (3.00)	126083 (5.49)	0 (0.00)	6 (2.33)
<i>tgdedx2</i>	3 (1.00)	63266 (11.97)	0 (0.00)	3 (1.00)	58191 (11.89)	0 (0.00)	6 (1.00) 1
tgdedx	3 (1.00)	209024 (3.62)	0 (0.00)	3 (1.00)	194649 (3.56)	0 (0.00)	6 (1.00)
<i>tglike1</i>	3 (1.00)	107642 (7.04)	0 (0.00)	3 (1.00)	103324 (6.70)	0 (0.00)	6 (1.00)
<i>tglike2</i>	3 (1.00)	97149 (7.80)	0 (0.00)	3 (1.00)	91103 (7.60)	0 (0.00)	6 (1.00)
TGLIKE	3 (1.00)	146044 (5.19)	0 (0.00)	3 (1.00)	138382 (5.00)	0 (0.00)	6 (1.00)
<i>tgdb4</i>	3 (1.00)	60401 (12.54)	0 (0.00)	3 (1.00)	58545 (11.82)	0 (0.00)	6 (1.00) 1
<i>tgdb4tip</i>	3 (1.00)	206299 (3.67)	0 (0.00)	3 (1.00)	146471 (4.72)	0 (0.00)	6 (1.00)
<i>tgdvxtip</i>	3 (1.00)	124124 (6.10)	0 (0.00)	3 (1.00)	69430 (9.97)	0 (0.00)	6 (1.00)
<i>tgdvxpi</i>	3 (1.00)	86023 (8.80)	0 (0.00)	3 (1.00)	72433 (9.55)	0 (0.00)	6 (1.00)
TGB4	3 (1.00)	311662 (2.43)	0 (0.00)	3 (1.00)	222180 (3.11)	0 (0.00)	6 (1.00)
<i>pigap</i>	3 (1.00)	68054 (11.13)	0 (0.00)	3 (1.00)	66693 (10.38)	0 (0.00)	6 (1.00) 1
KIN	3 (1.00)	641435 (1.18)	0 (0.00)	3 (1.00)	603679 (1.15)	0 (0.00)	6 (1.00) 1
<i>piflg</i>	3 (1.00)	25722 (29.44)	0 (0.00)	3 (1.00)	38711 (17.88)	0 (0.00)	6 (1.00)
<i>ev502</i>	3 (1.00)	216199 (3.50)	0 (0.00)	2 (1.50)	206251 (3.36)	0 (0.00)	5 (1.20)
<i>elveto</i>	2 (1.50)	183187 (4.13)	0 (0.00)	2 (1.00)	232742 (2.97)	0 (0.00)	4 (1.25)
<i>tdfool</i>	2 (1.00)	133123 (5.69)	0 (0.00)	2 (1.00)	184629 (3.75)	0 (0.00)	4 (1.00)
<i>tdvarnn02</i>	2 (1.00)	281062 (2.69)	0 (0.00)	1 (2.00)	333030 (2.08)	0 (0.00)	3 (1.33)
TD	2 (1.00)	429657 (1.76)	0 (0.00)	1 (1.00)	450809 (1.54)	0 (0.00)	3 (1.00)
<i>b4trs</i>	0 (2.00)	169185 (4.48)	2 (2.00)	0 (1.00)	161573 (4.28)	1 (1.00)	0 (3.00)
<i>b4ccd</i>	0 (0.00)	9098 (83.24)	0 (0.00)	0 (0.00)	11199 (61.80)	0 (0.00)	0 (0.00)
Total Rej.		2.00			1.00		

Table 17: 2-Beam Normalization. Branch no. 2

Cuts	gaptgz seq	gaptgz single	gaptgz allbut	p2d2 seq	p2d2 single	p2d2 allbut
<i>BOX</i>	757279 (0.00)	0 (757279.00)	1 (1.00)	692069 (0.00)	0 (692069.00)	0 (0.00)
<i>rsdedxmax</i>	757279 (1.00)	0 (757279.00)	1 (1.00)	692069 (1.00)	0 (692069.00)	0 (0.00)
<i>rsdedxcl</i>	757279 (1.00)	0 (757279.00)	1 (1.00)	692069 (1.00)	0 (692069.00)	0 (0.00)
<i>rslike</i>	757279 (1.00)	0 (757279.00)	1 (1.00)	692069 (1.00)	0 (692069.00)	0 (0.00)
<i>pv(not tg)</i>	432584 (1.75)	324695 (2.33)	6 (6.00)	348861 (1.98)	343208 (2.02)	7 (7.00)
<i>tgqualt</i>	403812 (1.07)	54119 (13.99)	1 (1.00)	324008 (1.08)	52835 (13.10)	0 (0.00)
<i>timcon</i>	400117 (1.01)	8896 (85.13)	1 (1.00)	320403 (1.01)	9923 (69.74)	0 (0.00)
<i>epitg</i>	392664 (1.02)	19581 (38.67)	1 (1.00)	312664 (1.02)	24503 (28.24)	0 (0.00)
<i>tger</i>	385597 (1.02)	20590 (36.78)	1 (1.00)	306366 (1.02)	20173 (34.31)	0 (0.00)
<i>ticcon</i>	385586 (1.00)	116 (6528.27)	1 (1.00)	306350 (1.00)	194 (3567.37)	0 (0.00)
<i>dtgttp</i>	385533 (1.00)	650 (1165.04)	1 (1.00)	306328 (1.00)	463 (1494.75)	0 (0.00)
<i>rtdif</i>	375374 (1.03)	17804 (42.53)	1 (1.00)	302398 (1.01)	9415 (73.51)	0 (0.00)
<i>drp</i>	368819 (1.02)	13517 (56.02)	1 (1.00)	298122 (1.01)	11934 (57.99)	0 (0.00)
<i>eiccon</i>	359940 (1.02)	31957 (23.70)	1 (1.00)	291430 (1.02)	31784 (21.77)	0 (0.00)
<i>kic</i>	315685 (1.14)	152601 (4.96)	1 (1.00)	255366 (1.14)	115553 (5.99)	0 (0.00)
<i>tggeo</i>	267695 (1.18)	316650 (2.39)	1 (1.00)	219203 (1.16)	284374 (2.43)	0 (0.00)
<i>tgzfool 787</i>	189828 (1.41)	191717 (3.95)	1 (1.00)	140962 (1.56)	192639 (3.59)	0 (0.00)
<i>upvtrs</i>	172223 (1.10)	60254 (12.57)	1 (1.00)	136083 (1.04)	22440 (30.84)	0 (0.00)
<i>rvtrs</i>	171328 (1.01)	15383 (49.23)	1 (1.00)	135439 (1.00)	13491 (51.30)	0 (0.00)
<i>tgtcon</i>	162026 (1.06)	60212 (12.58)	1 (1.00)	129747 (1.04)	59148 (11.70)	0 (0.00)
<i>b4etcon</i>	158042 (1.03)	23424 (32.33)	1 (1.00)	127157 (1.02)	18567 (37.27)	0 (0.00)
<i>b4tim</i>	58365 (2.71)	391850 (1.93)	1 (1.00)	63738 (2.00)	257014 (2.69)	0 (0.00)
<i>tgktim</i>	58365 (1.00)	0 (757279.00)	1 (1.00)	63738 (1.00)	0 (692069.00)	0 (0.00)
<i>tgenr</i>	56855 (1.03)	92036 (8.23)	1 (1.00)	62306 (1.02)	88255 (7.84)	0 (0.00)
<i>chi567</i>	21580 (2.63)	507318 (1.49)	1 (1.00)	24723 (2.52)	468327 (1.48)	1 (1.00)
<i>npitg</i>	21580 (1.00)	54119 (13.99)	1 (1.00)	24723 (1.00)	52835 (13.10)	0 (0.00)
<i>verrng</i>	16434 (1.31)	319156 (2.37)	1 (1.00)	19385 (1.28)	295630 (2.34)	0 (0.00)
<i>chi5max</i>	16434 (1.00)	3202 (236.50)	1 (1.00)	19385 (1.00)	4129 (167.61)	0 (0.00)
<i>angli</i>	16393 (1.00)	53142 (14.25)	1 (1.00)	19327 (1.00)	51337 (13.48)	0 (0.00)
<i>ALLKfit</i>	10761 (1.52)	288984 (2.62)	1 (1.00)	13603 (1.42)	195616 (3.54)	0 (0.00)
<i>tpics</i>	9393 (1.15)	96937 (7.81)	1 (1.00)	11856 (1.15)	93388 (7.41)	0 (0.00)
<i>epionk</i>	9165 (1.02)	21759 (34.80)	1 (1.00)	11541 (1.03)	29325 (23.60)	0 (0.00)
<i>ccdpul</i>	2738 (3.35)	537948 (1.41)	3 (3.00)	3584 (3.22)	473954 (1.46)	3 (3.00)
<i>timkf</i>	1923 (1.42)	549157 (1.38)	1 (1.00)	2470 (1.45)	431325 (1.60)	0 (0.00)
<i>DELC(0.)</i>	580 (3.32)	539794 (1.40)	5 (5.00)	795 (3.11)	407790 (1.70)	5 (5.00)
<i>b4dedx</i>	577 (1.01)	210864 (3.59)	1 (1.00)	789 (1.01)	48858 (14.16)	0 (0.00)
<i>cpitrs</i>	533 (1.08)	315320 (2.40)	1 (1.00)	786 (1.00)	15592 (44.39)	0 (0.00)
<i>cpitail</i>	533 (1.00)	56049 (13.51)	1 (1.00)	786 (1.00)	1662 (416.41)	0 (0.00)
<i>cktrs · cktail · bwtrs</i>	98 (5.44)	380299 (1.99)	6 (6.00)	153 (5.14)	247250 (2.80)	6 (6.00)
<i>BOX</i>	98 (1.00)	0 (757279.00)	1 (1.00)	153 (1.00)	0 (692069.00)	0 (0.00)
<i>icodel14</i>	98 (1.00)	4 (189320.00)	1 (1.00)	153 (1.00)	3 (230690.00)	0 (0.00)
<i>cos3d</i>	95 (1.03)	57772 (13.11)	1 (1.00)	148 (1.03)	51195 (13.52)	0 (0.00)
<i>layv4</i>	95 (1.00)	0 (757279.00)	1 (1.00)	148 (1.00)	0 (692069.00)	0 (0.00)
<i>zfrf</i>	94 (1.01)	824 (919.03)	1 (1.00)	147 (1.01)	871 (794.57)	0 (0.00)
<i>zutout</i>	94 (1.00)	589 (1285.70)	1 (1.00)	147 (1.00)	494 (1400.95)	0 (0.00)
FIDUCIAL	94 (1.00)	58856 (12.87)	1 (1.00)	147 (1.00)	52266 (13.24)	0 (0.00)

Cuts	gaptgz seq	gaptgz single	gaptgz allbut	p2d2 seq	p2d2 single	p2d2 allbut	2bmrej seq
<i>utcqual</i>	75 (1.25)	152609 (4.96)	1 (1.00)	112 (1.31)	140324 (4.93)	0 (0.00)	187 (1.29)
<i>rsdedxcl</i>	75 (1.00)	0 (757279.00)	1 (1.00)	112 (1.00)	0 (692069.00)	0 (0.00)	187 (1.00)
<i>rsdedxmax</i>	75 (1.00)	0 (757279.00)	1 (1.00)	112 (1.00)	0 (692069.00)	0 (0.00)	187 (1.00)
<i>rslike</i>	75 (1.00)	0 (757279.00)	1 (1.00)	112 (1.00)	0 (692069.00)	0 (0.00)	187 (1.00)
<i>tgktim</i>	75 (1.00)	0 (757279.00)	1 (1.00)	112 (1.00)	0 (692069.00)	0 (0.00)	187 (1.00)
<i>rngmom</i>	5 (15.00)	221548 (3.42)	1 (1.00)	9 (12.44)	323963 (2.14)	0 (0.00)	14 (13.36)
<i>prrf1</i>	5 (1.00)	24351 (31.10)	1 (1.00)	9 (1.00)	23039 (30.04)	0 (0.00)	14 (1.00)
<i>prrfz</i>	5 (1.00)	51435 (14.72)	1 (1.00)	9 (1.00)	38963 (17.76)	0 (0.00)	14 (1.00)
PRRF	5 (1.00)	73237 (10.34)	1 (1.00)	9 (1.00)	59838 (11.57)	0 (0.00)	14 (1.00)
<i>rtghi</i>	5 (1.00)	2440 (310.36)	1 (1.00)	9 (1.00)	2504 (276.38)	0 (0.00)	14 (1.00)
<i>etghi</i>	5 (1.00)	18315 (41.35)	1 (1.00)	9 (1.00)	17454 (39.65)	0 (0.00)	14 (1.00)
<i>tgdedx1</i>	3 (1.67)	135234 (5.60)	1 (1.00)	3 (3.00)	126083 (5.49)	0 (0.00)	6 (2.33)
<i>tgdedx2</i>	3 (1.00)	63266 (11.97)	1 (1.00)	3 (1.00)	58191 (11.89)	0 (0.00)	6 (1.00)
tgdedx	3 (1.00)	209024 (3.62)	1 (1.00)	3 (1.00)	194649 (3.56)	0 (0.00)	6 (1.00)
<i>tglike1</i>	3 (1.00)	107642 (7.04)	1 (1.00)	3 (1.00)	103324 (6.70)	0 (0.00)	6 (1.00)
<i>tglike2</i>	3 (1.00)	97149 (7.80)	1 (1.00)	3 (1.00)	91103 (7.60)	0 (0.00)	6 (1.00)
TGLIKE	3 (1.00)	146044 (5.19)	1 (1.00)	3 (1.00)	138382 (5.00)	0 (0.00)	6 (1.00)
<i>tgdb4</i>	3 (1.00)	60401 (12.54)	1 (1.00)	3 (1.00)	58545 (11.82)	0 (0.00)	6 (1.00)
<i>tgdb4tip</i>	3 (1.00)	206299 (3.67)	1 (1.00)	3 (1.00)	146471 (4.72)	0 (0.00)	6 (1.00)
<i>tgdvxtip</i>	3 (1.00)	124124 (6.10)	1 (1.00)	3 (1.00)	69430 (9.97)	0 (0.00)	6 (1.00)
<i>tgdvxpi</i>	3 (1.00)	86023 (8.80)	1 (1.00)	3 (1.00)	72433 (9.55)	0 (0.00)	6 (1.00)
TGB4	3 (1.00)	311662 (2.43)	1 (1.00)	3 (1.00)	222180 (3.11)	0 (0.00)	6 (1.00)
<i>pigap</i>	3 (1.00)	68054 (11.13)	1 (1.00)	3 (1.00)	66693 (10.38)	0 (0.00)	6 (1.00)
KIN	3 (1.00)	641435 (1.18)	1 (1.00)	3 (1.00)	603679 (1.15)	0 (0.00)	6 (1.00)
<i>piflg</i>	3 (1.00)	25722 (29.44)	1 (1.00)	3 (1.00)	38711 (17.88)	0 (0.00)	6 (1.00)
<i>ev502</i>	3 (1.00)	216199 (3.50)	1 (1.00)	2 (1.50)	206251 (3.36)	0 (0.00)	5 (1.20)
<i>elveto</i>	2 (1.50)	183187 (4.13)	1 (1.00)	2 (1.00)	232742 (2.97)	0 (0.00)	4 (1.25)
<i>tdfool</i>	2 (1.00)	133123 (5.69)	1 (1.00)	2 (1.00)	184629 (3.75)	0 (0.00)	4 (1.00)
<i>tdvarnn02</i>	2 (1.00)	281062 (2.69)	1 (1.00)	1 (2.00)	333030 (2.08)	0 (0.00)	3 (1.33)
TD	2 (1.00)	429657 (1.76)	1 (1.00)	1 (1.00)	450809 (1.54)	0 (0.00)	3 (1.00)
<i>targf</i>	2 (1.00)	104400 (7.25)	1 (1.00)	1 (1.00)	113785 (6.08)	0 (0.00)	3 (1.00)
<i>b4ekz</i>	1 (2.00)	517417 (1.46)	1 (1.00)	0 (1.00)	398099 (1.74)	0 (0.00)	1 (3.00)
<i>epimaxk</i>	1 (1.00)	46636 (16.24)	1 (1.00)	0 (0.00)	48396 (14.30)	0 (0.00)	1 (1.00)
<i>phivtx1</i>	1 (1.00)	167293 (4.53)	1 (1.00)	0 (0.00)	159666 (4.33)	0 (0.00)	1 (1.00)
<i>opsveto</i>	1 (1.00)	232119 (3.26)	1 (1.00)	0 (0.00)	228486 (3.03)	0 (0.00)	1 (1.00)
<i>tdedge</i>	1 (1.00)	107373 (7.05)	1 (1.00)	0 (0.00)	69100 (10.02)	0 (0.00)	1 (1.00)
<i>tgcclpdf off</i>	1 (1.00)	0 (757279.00)	1 (1.00)	0 (0.00)	0 (692069.00)	0 (0.00)	1 (1.00)
<i>rtghi</i>	1 (1.00)	2440 (310.36)	1 (1.00)	0 (0.00)	2504 (276.38)	0 (0.00)	1 (1.00)
<i>etghi</i>	1 (1.00)	18315 (41.35)	1 (1.00)	0 (0.00)	17454 (39.65)	0 (0.00)	1 (1.00)
<i>tgdedx1</i>	1 (1.00)	135234 (5.60)	1 (1.00)	0 (0.00)	126083 (5.49)	0 (0.00)	1 (1.00)
<i>tgdedx2</i>	1 (1.00)	63266 (11.97)	1 (1.00)	0 (0.00)	58191 (11.89)	0 (0.00)	1 (1.00)
tgdedx	1 (1.00)	209024 (3.62)	1 (1.00)	0 (0.00)	194649 (3.56)	0 (0.00)	1 (1.00)
<i>tglike1</i>	1 (1.00)	107642 (7.04)	1 (1.00)	0 (0.00)	103324 (6.70)	0 (0.00)	1 (1.00)
<i>tglike2</i>	1 (1.00)	97149 (7.80)	1 (1.00)	0 (0.00)	91103 (7.60)	0 (0.00)	1 (1.00)
TGLIKE	1 (1.00)	146044 (5.19)	1 (1.00)	0 (0.00)	138382 (5.00)	0 (0.00)	1 (1.00)
<i>tgdb4</i>	1 (1.00)	60401 (12.54)	1 (1.00)	0 (0.00)	58545 (11.82)	0 (0.00)	1 (1.00)

Cuts	gaptgz seq	gaptgz single	gaptgz allbut	p2d2 seq	p2d2 single	p2d2 allbut	2bmrej seq	2bmrej single
<i>tgdB4tip</i>	1 (1.00)	206299 (3.67)	1 (1.00)	0 (0.00)	146471 (4.72)	0 (0.00)	1 (1.00)	39
<i>tgdVxtip</i>	1 (1.00)	124124 (6.10)	1 (1.00)	0 (0.00)	69430 (9.97)	0 (0.00)	1 (1.00)	22
<i>tgdVxpi</i>	1 (1.00)	86023 (8.80)	1 (1.00)	0 (0.00)	72433 (9.55)	0 (0.00)	1 (1.00)	17
TGB4	1 (1.00)	311662 (2.43)	1 (1.00)	0 (0.00)	222180 (3.11)	0 (0.00)	1 (1.00)	59
<i>pigap</i>	1 (1.00)	68054 (11.13)	1 (1.00)	0 (0.00)	66693 (10.38)	0 (0.00)	1 (1.00)	143
TGKIN	1 (1.00)	477425 (1.59)	1 (1.00)	0 (0.00)	395725 (1.75)	0 (0.00)	1 (1.00)	95
<i>tgpv</i>	1 (1.00)	227378 (3.33)	1 (1.00)	0 (0.00)	263082 (2.63)	0 (0.00)	1 (1.00)	53
Total Rej.		2.00			1.00			

Table 18: 2-Beam Normalization. Branch no. 3

Cuts	gaptgz seq	gaptgz single	gaptgz allbut	p2d2 seq	p2d2 single	p2d2 allbut
<i>BOX</i>	757279 (0.00)	0 (757279.00)	0 (0.00)	692069 (0.00)	0 (692069.00)	0 (0.00)
<i>rsdedxmax</i>	757279 (1.00)	0 (757279.00)	0 (0.00)	692069 (1.00)	0 (692069.00)	0 (0.00)
<i>rsdedxcl</i>	757279 (1.00)	0 (757279.00)	0 (0.00)	692069 (1.00)	0 (692069.00)	0 (0.00)
<i>rslike</i>	757279 (1.00)	0 (757279.00)	0 (0.00)	692069 (1.00)	0 (692069.00)	0 (0.00)
<i>pv(not tg)</i>	432584 (1.75)	324695 (2.33)	5 (5.00)	348861 (1.98)	343208 (2.02)	4 (4.00)
<i>tgqualt</i>	403812 (1.07)	54119 (13.99)	0 (0.00)	324008 (1.08)	52835 (13.10)	0 (0.00)
<i>timcon</i>	400117 (1.01)	8896 (85.13)	0 (0.00)	320403 (1.01)	9923 (69.74)	0 (0.00)
<i>epitg</i>	392664 (1.02)	19581 (38.67)	0 (0.00)	312664 (1.02)	24503 (28.24)	0 (0.00)
<i>tger</i>	385597 (1.02)	20590 (36.78)	0 (0.00)	306366 (1.02)	20173 (34.31)	0 (0.00)
<i>ticcon</i>	385586 (1.00)	116 (6528.27)	0 (0.00)	306350 (1.00)	194 (3567.37)	0 (0.00)
<i>dtgttp</i>	385533 (1.00)	650 (1165.04)	0 (0.00)	306328 (1.00)	463 (1494.75)	0 (0.00)
<i>rtdif</i>	375374 (1.03)	17804 (42.53)	0 (0.00)	302398 (1.01)	9415 (73.51)	0 (0.00)
<i>drp</i>	368819 (1.02)	13517 (56.02)	0 (0.00)	298122 (1.01)	11934 (57.99)	0 (0.00)
<i>eiccon</i>	359940 (1.02)	31957 (23.70)	0 (0.00)	291430 (1.02)	31784 (21.77)	0 (0.00)
<i>kic</i>	315685 (1.14)	152601 (4.96)	0 (0.00)	255366 (1.14)	115553 (5.99)	0 (0.00)
<i>tgeo</i>	267695 (1.18)	316650 (2.39)	0 (0.00)	219203 (1.16)	284374 (2.43)	0 (0.00)
<i>tgzfool 787</i>	189828 (1.41)	191717 (3.95)	1 (1.00)	140962 (1.56)	192639 (3.59)	0 (0.00)
<i>upvtrs</i>	172223 (1.10)	60254 (12.57)	0 (0.00)	136083 (1.04)	22440 (30.84)	0 (0.00)
<i>rvtrs</i>	171328 (1.01)	15383 (49.23)	0 (0.00)	135439 (1.00)	13491 (51.30)	0 (0.00)
<i>tgtcon</i>	162026 (1.06)	60212 (12.58)	0 (0.00)	129747 (1.04)	59148 (11.70)	0 (0.00)
<i>b4etcon</i>	158042 (1.03)	23424 (32.33)	0 (0.00)	127157 (1.02)	18567 (37.27)	0 (0.00)
<i>b4tim</i>	58365 (2.71)	391850 (1.93)	0 (0.00)	63738 (2.00)	257014 (2.69)	0 (0.00)
<i>tktim</i>	58365 (1.00)	0 (757279.00)	0 (0.00)	63738 (1.00)	0 (692069.00)	0 (0.00)
<i>tgenr</i>	56855 (1.03)	92036 (8.23)	0 (0.00)	62306 (1.02)	88255 (7.84)	0 (0.00)
<i>chi567</i>	21580 (2.63)	507318 (1.49)	1 (1.00)	24723 (2.52)	468327 (1.48)	0 (0.00)
<i>npitg</i>	21580 (1.00)	54119 (13.99)	0 (0.00)	24723 (1.00)	52835 (13.10)	0 (0.00)
<i>verrng</i>	16434 (1.31)	319156 (2.37)	3 (3.00)	19385 (1.28)	295630 (2.34)	1 (1.00)
<i>chi5max</i>	16434 (1.00)	3202 (236.50)	0 (0.00)	19385 (1.00)	4129 (167.61)	0 (0.00)
<i>angli</i>	16393 (1.00)	53142 (14.25)	0 (0.00)	19327 (1.00)	51337 (13.48)	0 (0.00)
<i>ALLKfit</i>	10761 (1.52)	288984 (2.62)	0 (0.00)	13603 (1.42)	195616 (3.54)	0 (0.00)
<i>tpics</i>	9393 (1.15)	96937 (7.81)	0 (0.00)	11856 (1.15)	93388 (7.41)	0 (0.00)
<i>epionk</i>	9165 (1.02)	21759 (34.80)	0 (0.00)	11541 (1.03)	29325 (23.60)	0 (0.00)
<i>ccdpul</i>	2738 (3.35)	537948 (1.41)	6 (6.00)	3584 (3.22)	473954 (1.46)	3 (3.00)
<i>timkf</i>	1923 (1.42)	549157 (1.38)	0 (0.00)	2470 (1.45)	431325 (1.60)	0 (0.00)
<i>DELC(0.)</i>	580 (3.32)	539794 (1.40)	1 (1.00)	795 (3.11)	407790 (1.70)	0 (0.00)
<i>b4dedx</i>	577 (1.01)	210864 (3.59)	0 (0.00)	789 (1.01)	48858 (14.16)	0 (0.00)
<i>cktrs</i>	501 (1.15)	265254 (2.85)	0 (0.00)	660 (1.20)	390590 (1.77)	0 (0.00)
<i>cktai</i>	498 (1.01)	169366 (4.47)	0 (0.00)	654 (1.01)	211277 (3.28)	0 (0.00)
<i>cpitrs · cpitail · bwtrs</i>	63 (7.90)	344193 (2.20)	5 (5.00)	21 (31.14)	517519 (1.34)	9 (9.00)
<i>BOX</i>	63 (1.00)	0 (757279.00)	0 (0.00)	21 (1.00)	0 (692069.00)	0 (0.00)
<i>icodel14</i>	63 (1.00)	4 (189320.00)	0 (0.00)	21 (1.00)	3 (230690.00)	0 (0.00)
<i>cos3d</i>	61 (1.03)	57772 (13.11)	0 (0.00)	20 (1.05)	51195 (13.52)	0 (0.00)
<i>layv4</i>	61 (1.00)	0 (757279.00)	0 (0.00)	20 (1.00)	0 (692069.00)	0 (0.00)
<i>zfrf</i>	61 (1.00)	824 (919.03)	0 (0.00)	20 (1.00)	871 (794.57)	0 (0.00)
<i>zutout</i>	61 (1.00)	589 (1285.70)	0 (0.00)	20 (1.00)	494 (1400.95)	0 (0.00)
FIDUCIAL	61 (1.00)	58856 (12.87)	0 (0.00)	20 (1.00)	52266 (13.24)	0 (0.00)

Cuts	gaptgz seq	gaptgz single	gaptgz allbut	p2d2 seq	p2d2 single	p2d2 allbut	2bmrej seq
<i>utcqual</i>	53 (1.15)	152609 (4.96)	0 (0.00)	16 (1.25)	140324 (4.93)	0 (0.00)	124 (1.11)
<i>rsdedxcl</i>	53 (1.00)	0 (757279.00)	0 (0.00)	16 (1.00)	0 (692069.00)	0 (0.00)	124 (1.00)
<i>rsdedxmax</i>	53 (1.00)	0 (757279.00)	0 (0.00)	16 (1.00)	0 (692069.00)	0 (0.00)	124 (1.00)
<i>rslike</i>	53 (1.00)	0 (757279.00)	0 (0.00)	16 (1.00)	0 (692069.00)	0 (0.00)	124 (1.00)
<i>tgktim</i>	53 (1.00)	0 (757279.00)	0 (0.00)	16 (1.00)	0 (692069.00)	0 (0.00)	124 (1.00)
<i>rngmom</i>	37 (1.43)	221548 (3.42)	0 (0.00)	3 (5.33)	323963 (2.14)	0 (0.00)	93 (1.33)
<i>prrf1</i>	35 (1.06)	24351 (31.10)	0 (0.00)	3 (1.00)	23039 (30.04)	0 (0.00)	84 (1.11)
<i>prrfz</i>	33 (1.06)	51435 (14.72)	0 (0.00)	3 (1.00)	38963 (17.76)	0 (0.00)	80 (1.05)
PRRF	33 (1.00)	73237 (10.34)	0 (0.00)	3 (1.00)	59838 (11.57)	0 (0.00)	80 (1.00)
<i>rtghi</i>	33 (1.00)	2440 (310.36)	0 (0.00)	3 (1.00)	2504 (276.38)	0 (0.00)	80 (1.00)
<i>etghi</i>	33 (1.00)	18315 (41.35)	0 (0.00)	3 (1.00)	17454 (39.65)	0 (0.00)	80 (1.00)
<i>tgdedx1</i>	27 (1.22)	135234 (5.60)	0 (0.00)	3 (1.00)	126083 (5.49)	0 (0.00)	66 (1.21)
<i>tgdedx2</i>	27 (1.00)	63266 (11.97)	0 (0.00)	3 (1.00)	58191 (11.89)	0 (0.00)	66 (1.00)
tgdedx	27 (1.00)	209024 (3.62)	0 (0.00)	3 (1.00)	194649 (3.56)	0 (0.00)	66 (1.00)
<i>tglike1</i>	27 (1.00)	107642 (7.04)	0 (0.00)	3 (1.00)	103324 (6.70)	0 (0.00)	66 (1.00)
<i>tglike2</i>	27 (1.00)	97149 (7.80)	0 (0.00)	3 (1.00)	91103 (7.60)	0 (0.00)	66 (1.00)
TGLIKE	27 (1.00)	146044 (5.19)	0 (0.00)	3 (1.00)	138382 (5.00)	0 (0.00)	66 (1.00)
<i>tgdb4</i>	27 (1.00)	60401 (12.54)	0 (0.00)	3 (1.00)	58545 (11.82)	0 (0.00)	66 (1.00)
<i>tgdb4tip</i>	24 (1.12)	206299 (3.67)	0 (0.00)	3 (1.00)	146471 (4.72)	0 (0.00)	54 (1.22)
<i>tgdvxtip</i>	24 (1.00)	124124 (6.10)	0 (0.00)	3 (1.00)	69430 (9.97)	0 (0.00)	53 (1.02)
<i>tgdvxpi</i>	24 (1.00)	86023 (8.80)	0 (0.00)	3 (1.00)	72433 (9.55)	0 (0.00)	52 (1.02)
TGB4	24 (1.00)	311662 (2.43)	0 (0.00)	3 (1.00)	222180 (3.11)	0 (0.00)	52 (1.00)
<i>pigap</i>	24 (1.00)	68054 (11.13)	0 (0.00)	3 (1.00)	66693 (10.38)	0 (0.00)	52 (1.00)
KIN	24 (1.00)	641435 (1.18)	0 (0.00)	3 (1.00)	603679 (1.15)	0 (0.00)	52 (1.00)
<i>piflg</i>	24 (1.00)	25722 (29.44)	0 (0.00)	3 (1.00)	38711 (17.88)	0 (0.00)	52 (1.00)
<i>ev502</i>	21 (1.14)	216199 (3.50)	0 (0.00)	3 (1.00)	206251 (3.36)	0 (0.00)	44 (1.18)
<i>elveto</i>	19 (1.11)	183187 (4.13)	0 (0.00)	3 (1.00)	232742 (2.97)	0 (0.00)	42 (1.05)
<i>tdfool</i>	19 (1.00)	133123 (5.69)	0 (0.00)	3 (1.00)	184629 (3.75)	0 (0.00)	42 (1.00)
<i>tdvarnn02</i>	12 (1.58)	281062 (2.69)	0 (0.00)	2 (1.50)	333030 (2.08)	0 (0.00)	30 (1.40)
TD	12 (1.00)	429657 (1.76)	0 (0.00)	2 (1.00)	450809 (1.54)	0 (0.00)	30 (1.00)
<i>b4trs</i>	0 (12.00)	169185 (4.48)	12 (12.00)	0 (2.00)	161573 (4.28)	2 (2.00)	3 (10.00)
<i>b4ccd</i>	0 (0.00)	9098 (83.24)	0 (0.00)	0 (0.00)	11199 (61.80)	0 (0.00)	2 (1.50)
Total Rej.		12.00			2.00		

Table 19: 2-Beam Normalization. Branch no. 4

Cuts	gaptgz seq	gaptgz single	gaptgz allbut	p2d2 seq	p2d2 single	p2d2 allbut
<i>BOX</i>	757279 (0.00)	0 (757279.00)	0 (0.00)	692069 (0.00)	0 (692069.00)	0 (0.00)
<i>rsdedxmax</i>	757279 (1.00)	0 (757279.00)	0 (0.00)	692069 (1.00)	0 (692069.00)	0 (0.00)
<i>rsdedxcl</i>	757279 (1.00)	0 (757279.00)	0 (0.00)	692069 (1.00)	0 (692069.00)	0 (0.00)
<i>rslike</i>	757279 (1.00)	0 (757279.00)	0 (0.00)	692069 (1.00)	0 (692069.00)	0 (0.00)
<i>pv(not tg)</i>	432584 (1.75)	324695 (2.33)	3 (3.00)	348861 (1.98)	343208 (2.02)	2 (2.00)
<i>tgqualt</i>	403812 (1.07)	54119 (13.99)	0 (0.00)	324008 (1.08)	52835 (13.10)	0 (0.00)
<i>timcon</i>	400117 (1.01)	8896 (85.13)	0 (0.00)	320403 (1.01)	9923 (69.74)	0 (0.00)
<i>epitg</i>	392664 (1.02)	19581 (38.67)	0 (0.00)	312664 (1.02)	24503 (28.24)	0 (0.00)
<i>tger</i>	385597 (1.02)	20590 (36.78)	0 (0.00)	306366 (1.02)	20173 (34.31)	0 (0.00)
<i>ticcon</i>	385586 (1.00)	116 (6528.27)	0 (0.00)	306350 (1.00)	194 (3567.37)	0 (0.00)
<i>dtgttp</i>	385533 (1.00)	650 (1165.04)	0 (0.00)	306328 (1.00)	463 (1494.75)	0 (0.00)
<i>rtdif</i>	375374 (1.03)	17804 (42.53)	0 (0.00)	302398 (1.01)	9415 (73.51)	0 (0.00)
<i>drp</i>	368819 (1.02)	13517 (56.02)	0 (0.00)	298122 (1.01)	11934 (57.99)	0 (0.00)
<i>eiccon</i>	359940 (1.02)	31957 (23.70)	0 (0.00)	291430 (1.02)	31784 (21.77)	0 (0.00)
<i>kic</i>	315685 (1.14)	152601 (4.96)	0 (0.00)	255366 (1.14)	115553 (5.99)	0 (0.00)
<i>tgeo</i>	267695 (1.18)	316650 (2.39)	0 (0.00)	219203 (1.16)	284374 (2.43)	0 (0.00)
<i>tgzfool 787</i>	189828 (1.41)	191717 (3.95)	0 (0.00)	140962 (1.56)	192639 (3.59)	0 (0.00)
<i>upvtrs</i>	172223 (1.10)	60254 (12.57)	0 (0.00)	136083 (1.04)	22440 (30.84)	0 (0.00)
<i>rvtrs</i>	171328 (1.01)	15383 (49.23)	0 (0.00)	135439 (1.00)	13491 (51.30)	0 (0.00)
<i>tgtcon</i>	162026 (1.06)	60212 (12.58)	0 (0.00)	129747 (1.04)	59148 (11.70)	0 (0.00)
<i>b4etcon</i>	158042 (1.03)	23424 (32.33)	0 (0.00)	127157 (1.02)	18567 (37.27)	0 (0.00)
<i>b4tim</i>	58365 (2.71)	391850 (1.93)	0 (0.00)	63738 (2.00)	257014 (2.69)	0 (0.00)
<i>tgktim</i>	58365 (1.00)	0 (757279.00)	0 (0.00)	63738 (1.00)	0 (692069.00)	0 (0.00)
<i>tgenr</i>	56855 (1.03)	92036 (8.23)	0 (0.00)	62306 (1.02)	88255 (7.84)	0 (0.00)
<i>chi567</i>	21580 (2.63)	507318 (1.49)	0 (0.00)	24723 (2.52)	468327 (1.48)	0 (0.00)
<i>npitg</i>	21580 (1.00)	54119 (13.99)	0 (0.00)	24723 (1.00)	52835 (13.10)	0 (0.00)
<i>verrng</i>	16434 (1.31)	319156 (2.37)	0 (0.00)	19385 (1.28)	295630 (2.34)	0 (0.00)
<i>chi5max</i>	16434 (1.00)	3202 (236.50)	0 (0.00)	19385 (1.00)	4129 (167.61)	0 (0.00)
<i>angli</i>	16393 (1.00)	53142 (14.25)	0 (0.00)	19327 (1.00)	51337 (13.48)	0 (0.00)
<i>ALLKfit</i>	10761 (1.52)	288984 (2.62)	0 (0.00)	13603 (1.42)	195616 (3.54)	0 (0.00)
<i>tpics</i>	9393 (1.15)	96937 (7.81)	0 (0.00)	11856 (1.15)	93388 (7.41)	0 (0.00)
<i>epionk</i>	9165 (1.02)	21759 (34.80)	0 (0.00)	11541 (1.03)	29325 (23.60)	0 (0.00)
<i>ccdpul</i>	2738 (3.35)	537948 (1.41)	1 (1.00)	3584 (3.22)	473954 (1.46)	2 (2.00)
<i>timkf</i>	1923 (1.42)	549157 (1.38)	0 (0.00)	2470 (1.45)	431325 (1.60)	0 (0.00)
<i>DELC(0.)</i>	580 (3.32)	539794 (1.40)	0 (0.00)	795 (3.11)	407790 (1.70)	0 (0.00)
<i>b4dedx</i>	577 (1.01)	210864 (3.59)	0 (0.00)	789 (1.01)	48858 (14.16)	0 (0.00)
<i>cktrs</i>	501 (1.15)	265254 (2.85)	0 (0.00)	660 (1.20)	390590 (1.77)	0 (0.00)
<i>cktai</i>	498 (1.01)	169366 (4.47)	0 (0.00)	654 (1.01)	211277 (3.28)	0 (0.00)
<i>cpitrs · cpitail · bwtrs</i>	63 (7.90)	344193 (2.20)	5 (5.00)	21 (31.14)	517519 (1.34)	6 (6.00)
<i>BOX</i>	63 (1.00)	0 (757279.00)	0 (0.00)	21 (1.00)	0 (692069.00)	0 (0.00)
<i>icodel14</i>	63 (1.00)	4 (189320.00)	0 (0.00)	21 (1.00)	3 (230690.00)	0 (0.00)
<i>cos3d</i>	61 (1.03)	57772 (13.11)	0 (0.00)	20 (1.05)	51195 (13.52)	0 (0.00)
<i>layv4</i>	61 (1.00)	0 (757279.00)	0 (0.00)	20 (1.00)	0 (692069.00)	0 (0.00)
<i>zfrf</i>	61 (1.00)	824 (919.03)	0 (0.00)	20 (1.00)	871 (794.57)	0 (0.00)
<i>zutout</i>	61 (1.00)	589 (1285.70)	0 (0.00)	20 (1.00)	494 (1400.95)	0 (0.00)
FIDUCIAL	61 (1.00)	58856 (12.87)	0 (0.00)	20 (1.00)	52266 (13.24)	0 (0.00)

Cuts	gaptgz seq	gaptgz single	gaptgz allbut	p2d2 seq	p2d2 single	p2d2 allbut	2bmrej seq
<i>utcqual</i>	53 (1.15)	152609 (4.96)	0 (0.00)	16 (1.25)	140324 (4.93)	0 (0.00)	124 (1.11)
<i>rsdedxcl</i>	53 (1.00)	0 (757279.00)	0 (0.00)	16 (1.00)	0 (692069.00)	0 (0.00)	124 (1.00)
<i>rsdedxmax</i>	53 (1.00)	0 (757279.00)	0 (0.00)	16 (1.00)	0 (692069.00)	0 (0.00)	124 (1.00)
<i>rslike</i>	53 (1.00)	0 (757279.00)	0 (0.00)	16 (1.00)	0 (692069.00)	0 (0.00)	124 (1.00)
<i>tgktim</i>	53 (1.00)	0 (757279.00)	0 (0.00)	16 (1.00)	0 (692069.00)	0 (0.00)	124 (1.00)
<i>rngmom</i>	37 (1.43)	221548 (3.42)	0 (0.00)	3 (5.33)	323963 (2.14)	0 (0.00)	93 (1.33)
<i>prrf1</i>	35 (1.06)	24351 (31.10)	0 (0.00)	3 (1.00)	23039 (30.04)	0 (0.00)	84 (1.11)
<i>prrfz</i>	33 (1.06)	51435 (14.72)	0 (0.00)	3 (1.00)	38963 (17.76)	0 (0.00)	80 (1.05)
PRRF	33 (1.00)	73237 (10.34)	0 (0.00)	3 (1.00)	59838 (11.57)	0 (0.00)	80 (1.00)
<i>rtghi</i>	33 (1.00)	2440 (310.36)	0 (0.00)	3 (1.00)	2504 (276.38)	0 (0.00)	80 (1.00)
<i>etghi</i>	33 (1.00)	18315 (41.35)	0 (0.00)	3 (1.00)	17454 (39.65)	0 (0.00)	80 (1.00)
<i>tgdedx1</i>	27 (1.22)	135234 (5.60)	0 (0.00)	3 (1.00)	126083 (5.49)	0 (0.00)	66 (1.21)
<i>tgdedx2</i>	27 (1.00)	63266 (11.97)	0 (0.00)	3 (1.00)	58191 (11.89)	0 (0.00)	66 (1.00)
tgdedx	27 (1.00)	209024 (3.62)	0 (0.00)	3 (1.00)	194649 (3.56)	0 (0.00)	66 (1.00)
<i>tglike1</i>	27 (1.00)	107642 (7.04)	0 (0.00)	3 (1.00)	103324 (6.70)	0 (0.00)	66 (1.00)
<i>tglike2</i>	27 (1.00)	97149 (7.80)	0 (0.00)	3 (1.00)	91103 (7.60)	0 (0.00)	66 (1.00)
TGLIKE	27 (1.00)	146044 (5.19)	0 (0.00)	3 (1.00)	138382 (5.00)	0 (0.00)	66 (1.00)
<i>tgdb4</i>	27 (1.00)	60401 (12.54)	0 (0.00)	3 (1.00)	58545 (11.82)	0 (0.00)	66 (1.00)
<i>tgdb4tip</i>	24 (1.12)	206299 (3.67)	0 (0.00)	3 (1.00)	146471 (4.72)	0 (0.00)	54 (1.22)
<i>tgdvxtip</i>	24 (1.00)	124124 (6.10)	0 (0.00)	3 (1.00)	69430 (9.97)	0 (0.00)	53 (1.02)
<i>tgdvxpi</i>	24 (1.00)	86023 (8.80)	0 (0.00)	3 (1.00)	72433 (9.55)	0 (0.00)	52 (1.02)
TGB4	24 (1.00)	311662 (2.43)	0 (0.00)	3 (1.00)	222180 (3.11)	0 (0.00)	52 (1.00)
<i>pigap</i>	24 (1.00)	68054 (11.13)	0 (0.00)	3 (1.00)	66693 (10.38)	0 (0.00)	52 (1.00)
KIN	24 (1.00)	641435 (1.18)	0 (0.00)	3 (1.00)	603679 (1.15)	0 (0.00)	52 (1.00)
<i>piflg</i>	24 (1.00)	25722 (29.44)	0 (0.00)	3 (1.00)	38711 (17.88)	0 (0.00)	52 (1.00)
<i>ev502</i>	21 (1.14)	216199 (3.50)	0 (0.00)	3 (1.00)	206251 (3.36)	0 (0.00)	44 (1.18)
<i>elveto</i>	19 (1.11)	183187 (4.13)	0 (0.00)	3 (1.00)	232742 (2.97)	0 (0.00)	42 (1.05)
<i>tdfool</i>	19 (1.00)	133123 (5.69)	0 (0.00)	3 (1.00)	184629 (3.75)	0 (0.00)	42 (1.00)
<i>tdvarnn02</i>	12 (1.58)	281062 (2.69)	0 (0.00)	2 (1.50)	333030 (2.08)	0 (0.00)	30 (1.40)
TD	12 (1.00)	429657 (1.76)	0 (0.00)	2 (1.00)	450809 (1.54)	0 (0.00)	30 (1.00)
<i>targf</i>	12 (1.00)	104400 (7.25)	0 (0.00)	2 (1.00)	113785 (6.08)	0 (0.00)	30 (1.00)
<i>b4ekz</i>	6 (2.00)	517417 (1.46)	0 (0.00)	2 (1.00)	398099 (1.74)	0 (0.00)	18 (1.67)
<i>epimaxk</i>	6 (1.00)	46636 (16.24)	0 (0.00)	2 (1.00)	48396 (14.30)	0 (0.00)	18 (1.00)
<i>phivtx1</i>	5 (1.20)	167293 (4.53)	0 (0.00)	1 (2.00)	159666 (4.33)	0 (0.00)	9 (2.00)
<i>opsveto</i>	0 (5.00)	232119 (3.26)	1 (1.00)	0 (1.00)	228486 (3.03)	0 (0.00)	0 (9.00)
<i>tdedge</i>	0 (0.00)	107373 (7.05)	0 (0.00)	0 (0.00)	69100 (10.02)	0 (0.00)	0 (0.00)
<i>tgcclpdf off</i>	0 (0.00)	0 (757279.00)	0 (0.00)	0 (0.00)	0 (692069.00)	0 (0.00)	0 (0.00)
<i>rtghi</i>	0 (0.00)	2440 (310.36)	0 (0.00)	0 (0.00)	2504 (276.38)	0 (0.00)	0 (0.00)
<i>etghi</i>	0 (0.00)	18315 (41.35)	0 (0.00)	0 (0.00)	17454 (39.65)	0 (0.00)	0 (0.00)
<i>tgdedx1</i>	0 (0.00)	135234 (5.60)	0 (0.00)	0 (0.00)	126083 (5.49)	0 (0.00)	0 (0.00)
<i>tgdedx2</i>	0 (0.00)	63266 (11.97)	0 (0.00)	0 (0.00)	58191 (11.89)	0 (0.00)	0 (0.00)
tgdedx	0 (0.00)	209024 (3.62)	0 (0.00)	0 (0.00)	194649 (3.56)	0 (0.00)	0 (0.00)
<i>tglike1</i>	0 (0.00)	107642 (7.04)	0 (0.00)	0 (0.00)	103324 (6.70)	0 (0.00)	0 (0.00)
<i>tglike2</i>	0 (0.00)	97149 (7.80)	0 (0.00)	0 (0.00)	91103 (7.60)	0 (0.00)	0 (0.00)
TGLIKE	0 (0.00)	146044 (5.19)	0 (0.00)	0 (0.00)	138382 (5.00)	0 (0.00)	0 (0.00)
<i>tgdb4</i>	0 (0.00)	60401 (12.54)	0 (0.00)	0 (0.00)	58545 (11.82)	0 (0.00)	0 (0.00)

Cuts	gaptgz seq	gaptgz single	gaptgz allbut	p2d2 seq	p2d2 single	p2d2 allbut	2bmrej seq	2bmrej single
<i>tgdB4tip</i>	0 (0.00)	206299 (3.67)	0 (0.00)	0 (0.00)	146471 (4.72)	0 (0.00)	0 (0.00)	39
<i>tgdVxtip</i>	0 (0.00)	124124 (6.10)	0 (0.00)	0 (0.00)	69430 (9.97)	0 (0.00)	0 (0.00)	22
<i>tgdVxpi</i>	0 (0.00)	86023 (8.80)	0 (0.00)	0 (0.00)	72433 (9.55)	0 (0.00)	0 (0.00)	17
TGB4	0 (0.00)	311662 (2.43)	0 (0.00)	0 (0.00)	222180 (3.11)	0 (0.00)	0 (0.00)	59
<i>pigap</i>	0 (0.00)	68054 (11.13)	0 (0.00)	0 (0.00)	66693 (10.38)	0 (0.00)	0 (0.00)	143
TGKIN	0 (0.00)	477425 (1.59)	0 (0.00)	0 (0.00)	395725 (1.75)	0 (0.00)	0 (0.00)	95
<i>tgpv</i>	0 (0.00)	227378 (3.33)	0 (0.00)	0 (0.00)	263082 (2.63)	0 (0.00)	0 (0.00)	53
Total Rej.		12.00			2.00			